

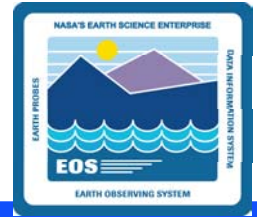
---

# ARCHIVE PROCESSING

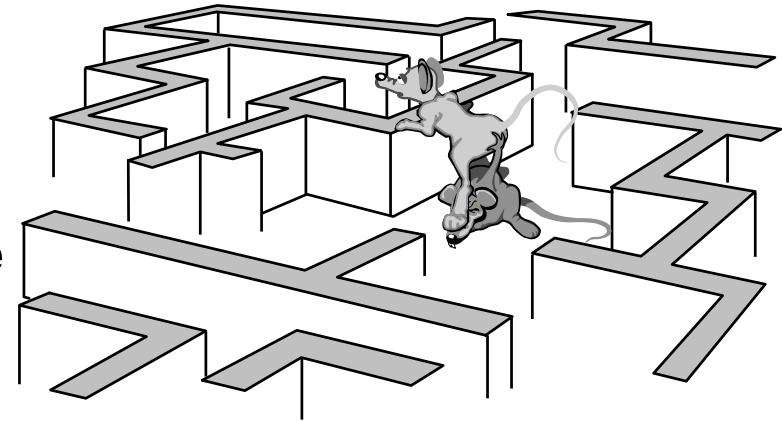
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**EMD Training**

# Overview of Lesson



- **Introduction**
- **Archive Processing Topics**
  - Archive Hardware and Software
  - Start and Shut Down AMASS
  - Archive Resources and Management
  - Insert and Retrieve Data
  - Delete Granules
  - Load Archive Media
  - Backup and Restore Archive Data
  - AMASS Graphical User Interface
  - Monitor and Troubleshoot Archive
  - Data Pool Management and Maintenance
- **Practical Exercise**

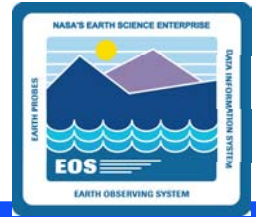


# Objectives



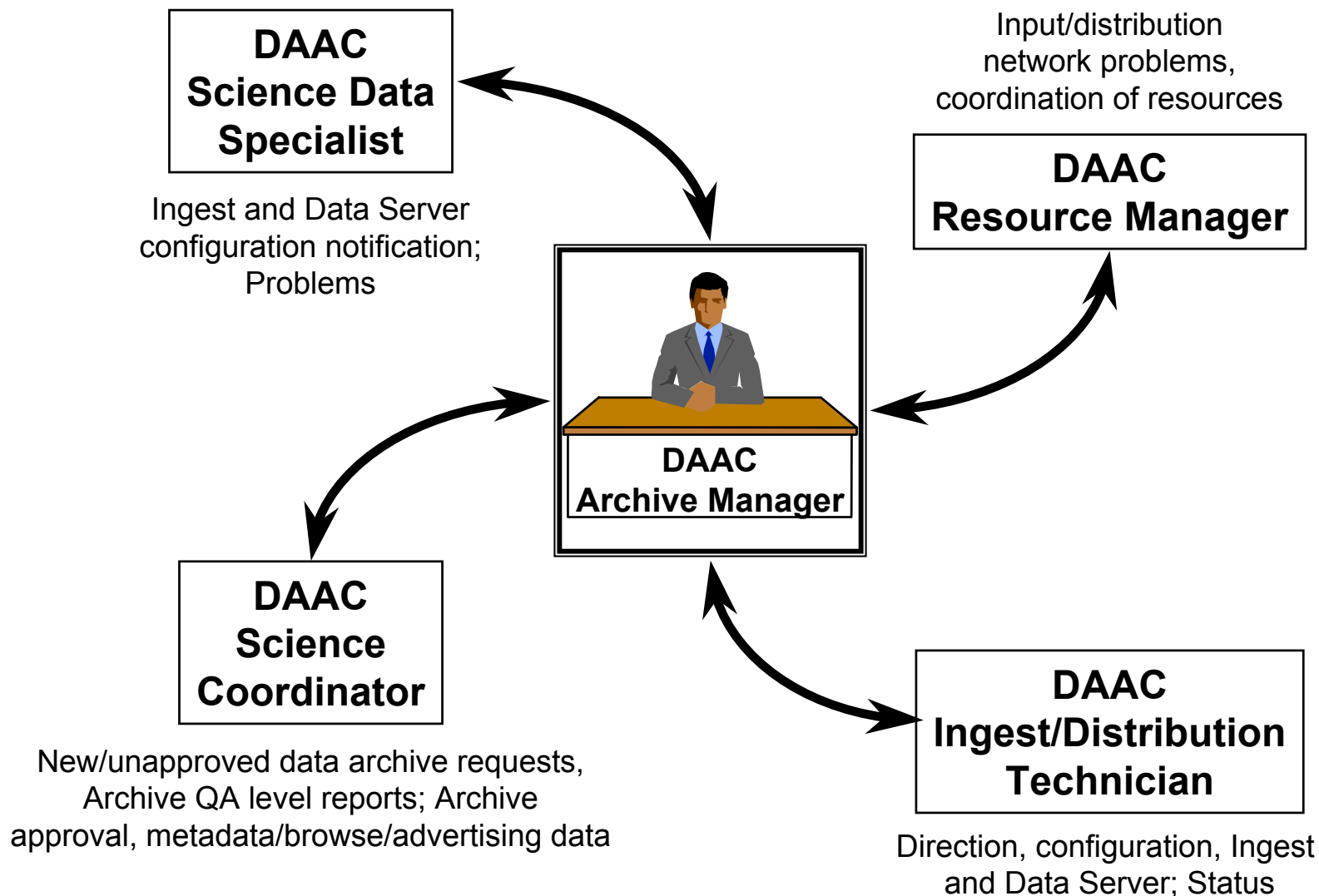
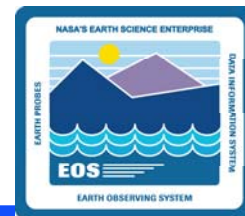
- **Overall: Proficiency in Archive Processing**
  - Describe Archive Manager roles and responsibilities
  - Identify and describe Archive storage resources
  - Start and shut down AMASS
  - Describe archive storage element relationships and archive resource management
  - Use Granule Deletion tool to delete granules
  - Load and unload cartridges
  - Insert/retrieve data
  - Delete files from the archive
  - Backup archive data
  - Restore archive data
  - Use the AMASS Graphical User Interface
  - Monitor archive system and perform troubleshooting
  - Use GUIs, utilities, and scripts for Data Pool maintenance

# Objectives (Cont.)

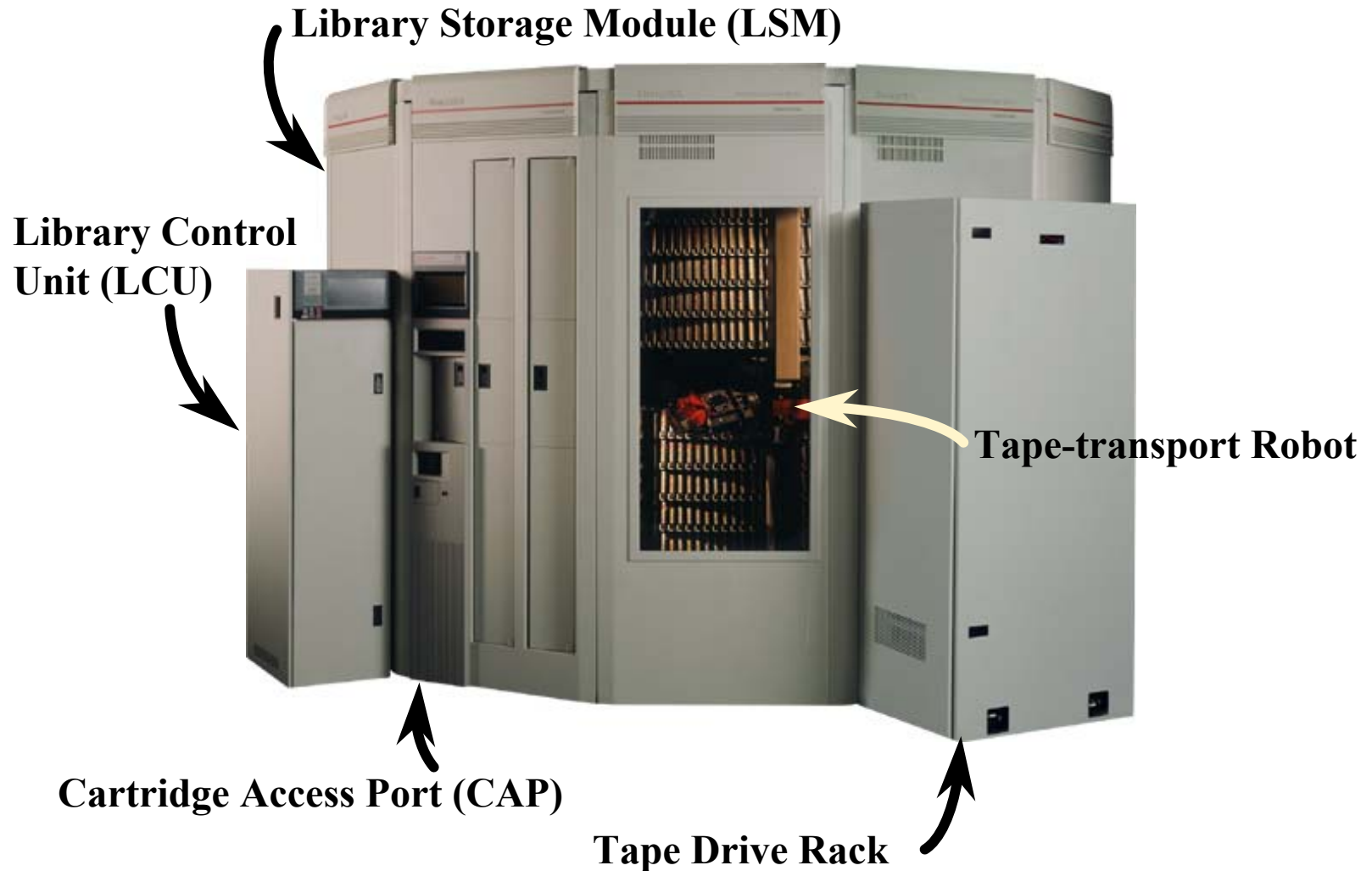
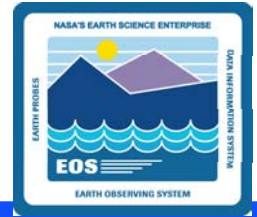


- **STANDARDS:**
  - Lesson content (procedures in the lesson)
  - Mission Operation Procedures for the EMD Project (611-EMD-001)

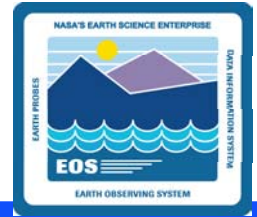
# DAAC Archive Manager Interfaces



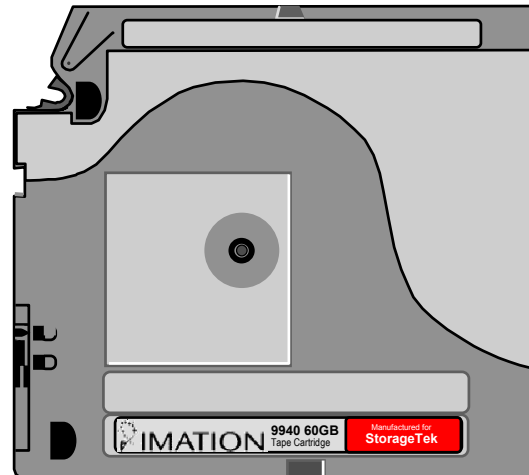
# STK Powderhorn Data Storage



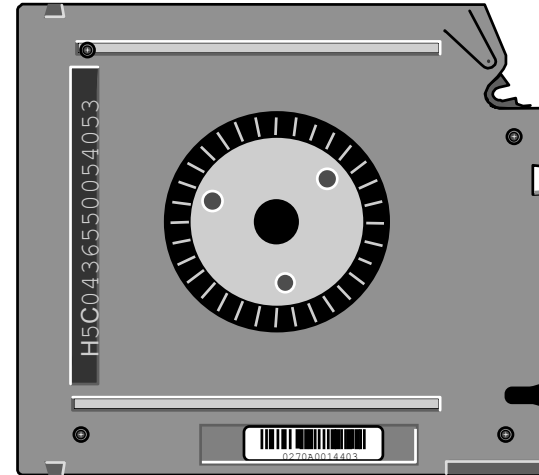
# STK 9940 Tape System



9940 Tape  
Drives

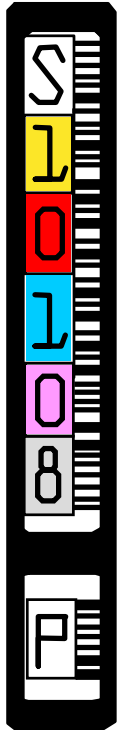


Front



Back

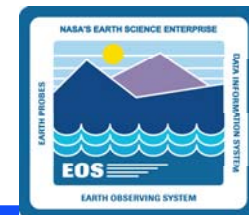
- 10 MB/sec uncompressed sustained data transfer rate
- 60 GB capacity per cartridge (uncompressed)
- 10-sec load time
- 50-sec search/access



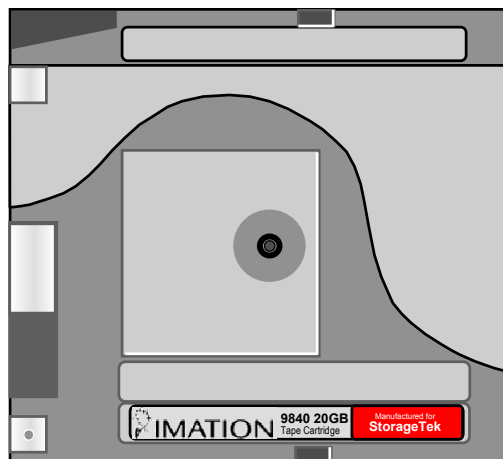
End View with  
Barcode



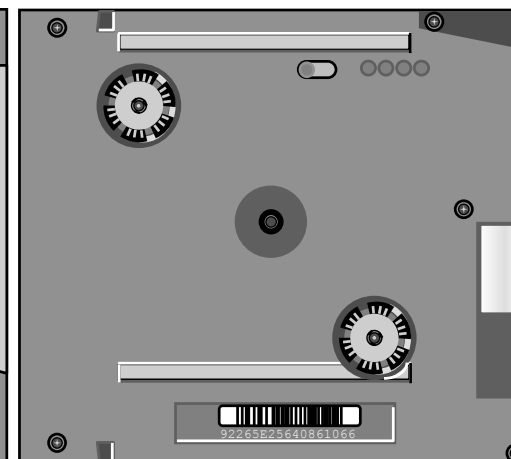
# 9840 Tape System for Browse Data



9840 Tape  
Drives



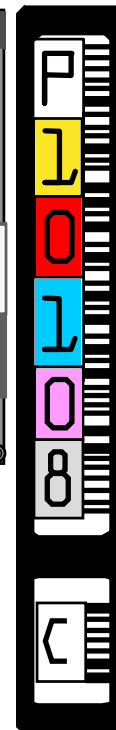
Front



Back

9840 Tape Cartridge

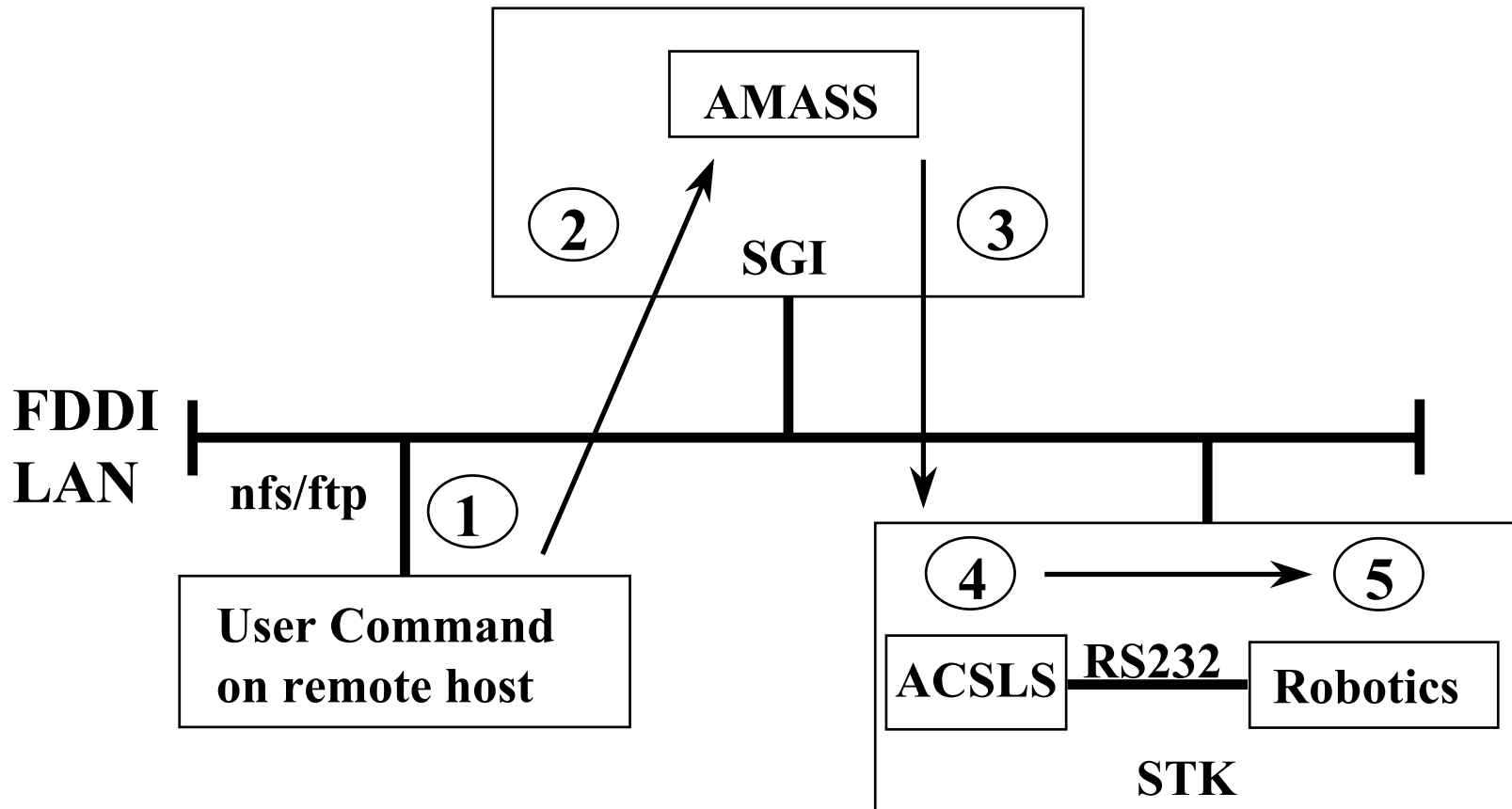
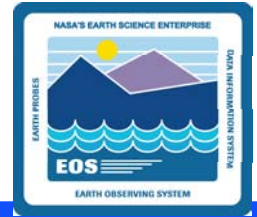
- 10 MB/sec uncompressed sustained data transfer rate
- 20 MB/sec compressed sustained data transfer rate
- 80 GB capacity per cartridge (compressed)
- Mid-point load for rapid search/access



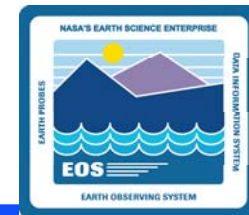
End View with  
Barcode



# AMASS Control Path



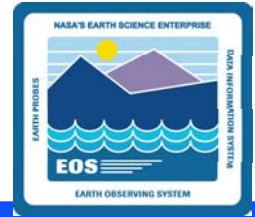
# Automated Cartridge System Library Software (ACSLS)



*Table 1. ACSLS Command Reference*

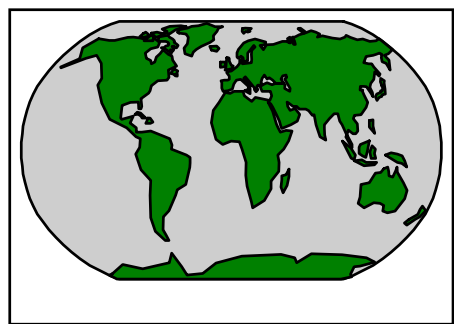
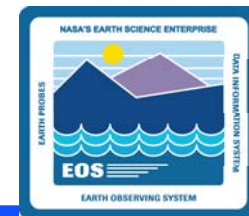
Command	Function
audit	Creates or updates the database inventory of the volumes in a library component.
cancel	Cancels a current or pending request.
clear lock	Removes all active and pending locks on transports or volumes
define pool	Creates or modifies scratch pools.
delete pool	Deletes empty scratch pools.
dismount	Dismounts a volume.
eject	Ejects one or more volumes from the Automated Cartridge System (ACS).
enter	Sets a Cartridge Access Port (CAP) to enter mode.
idle	Stops ACSLS from processing new requests.
lock	Locks (dedicates) a volume or transport to a user.
logoff	Exits the command processor.
mount	Mounts a data or scratch volume.
query	Displays the status of a library component.
set	Sets various attributes of different library components.
show	Displays your lock ID or user ID.
start	Starts ACSLS request processing.
unlock	Removes active locks on volumes or transports.
vary	Changes the state of an ACS, LSM, CAP, transport, or port.
venter	Enters one or more volumes with missing or unreadable labels into the ACS.

# Automated Cartridge System Library Software (ACSLS) (Cont.)



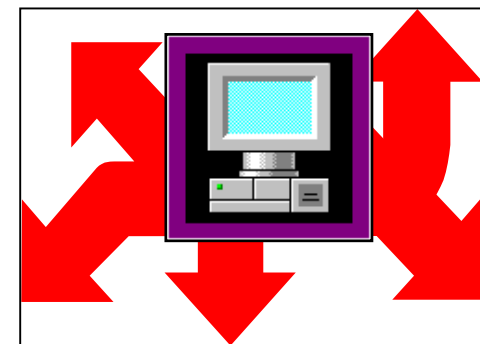
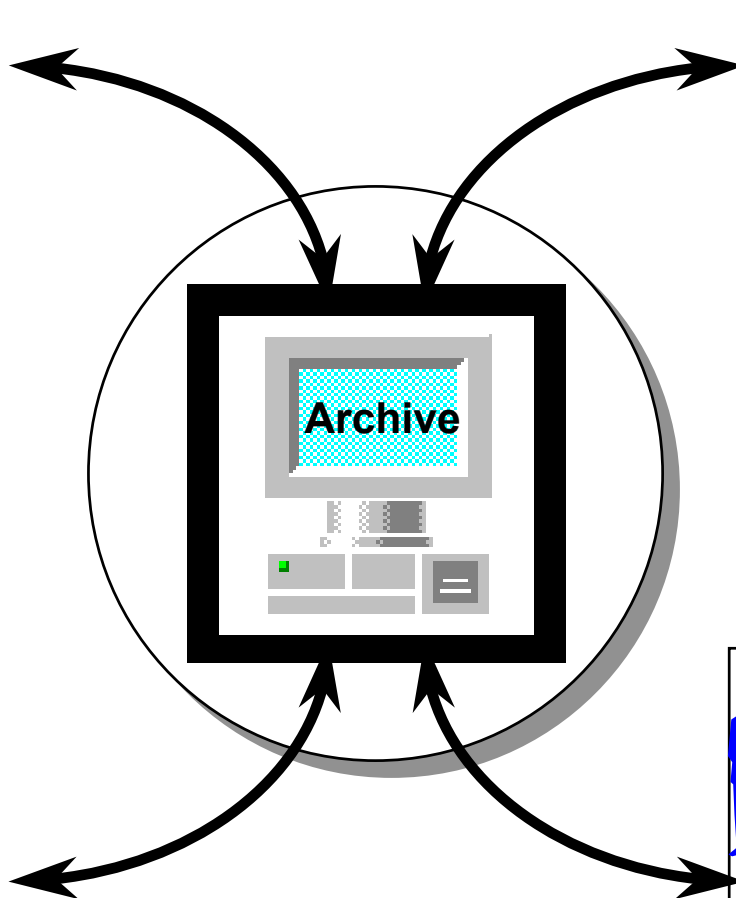
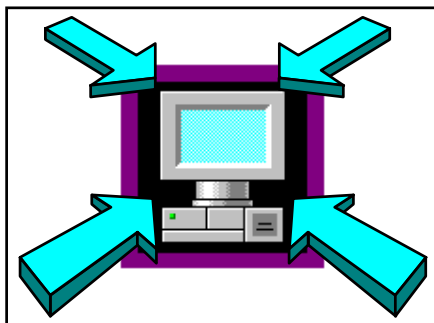
- **General Command Syntax:**
  - `command type_identifier state [options]`
- **Frequently used commands:**
  - `query`, `vary`, `enter`, `eject`
- **Utilities:**
  - `bdb.acsss` -- back up the ACSLS database
  - `kill.acsss` -- terminate ACSLS
  - `rc.acsss` -- start and recover ACSLS
  - `rdb.acsss` -- restore the ACSLS database
  - `volrpt` -- create a volume report
  - `db_command` -- start/stop Oracle database
- **User Ids:**
  - `acssa` -- enter commands
  - `acsss` -- run utilities from UNIX

# Sources and Uses of Archive Data



**Other DAACs**

**Ingest Subsystem**

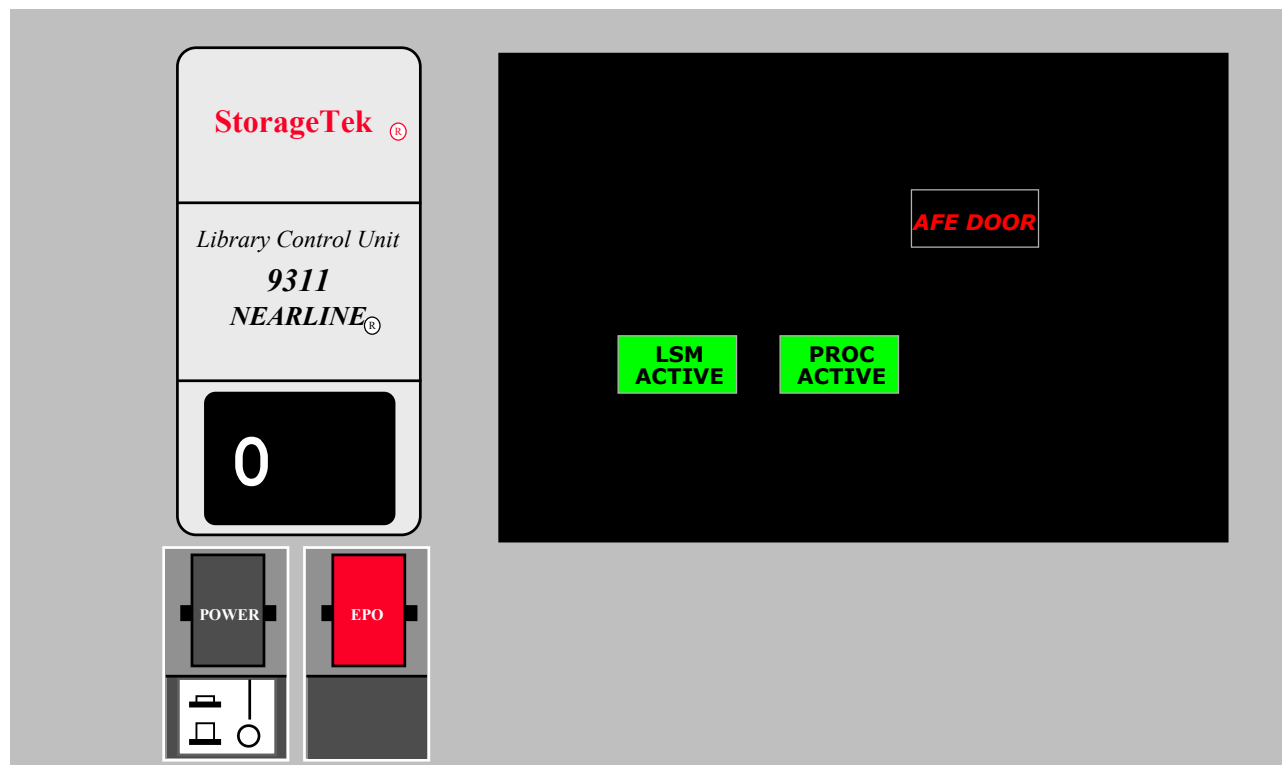
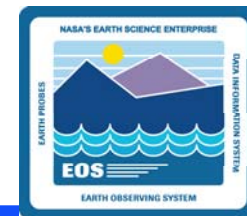


**Processing Subsystem**

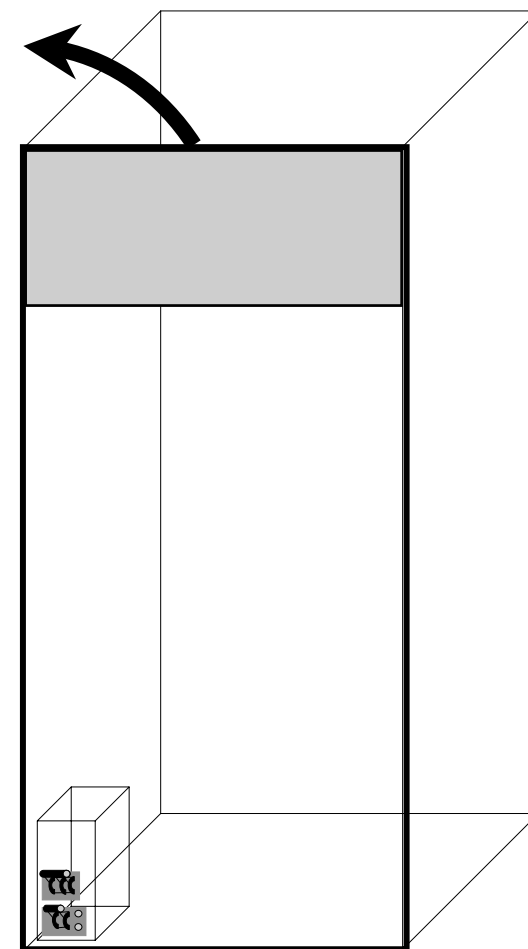
**Authorized Users**



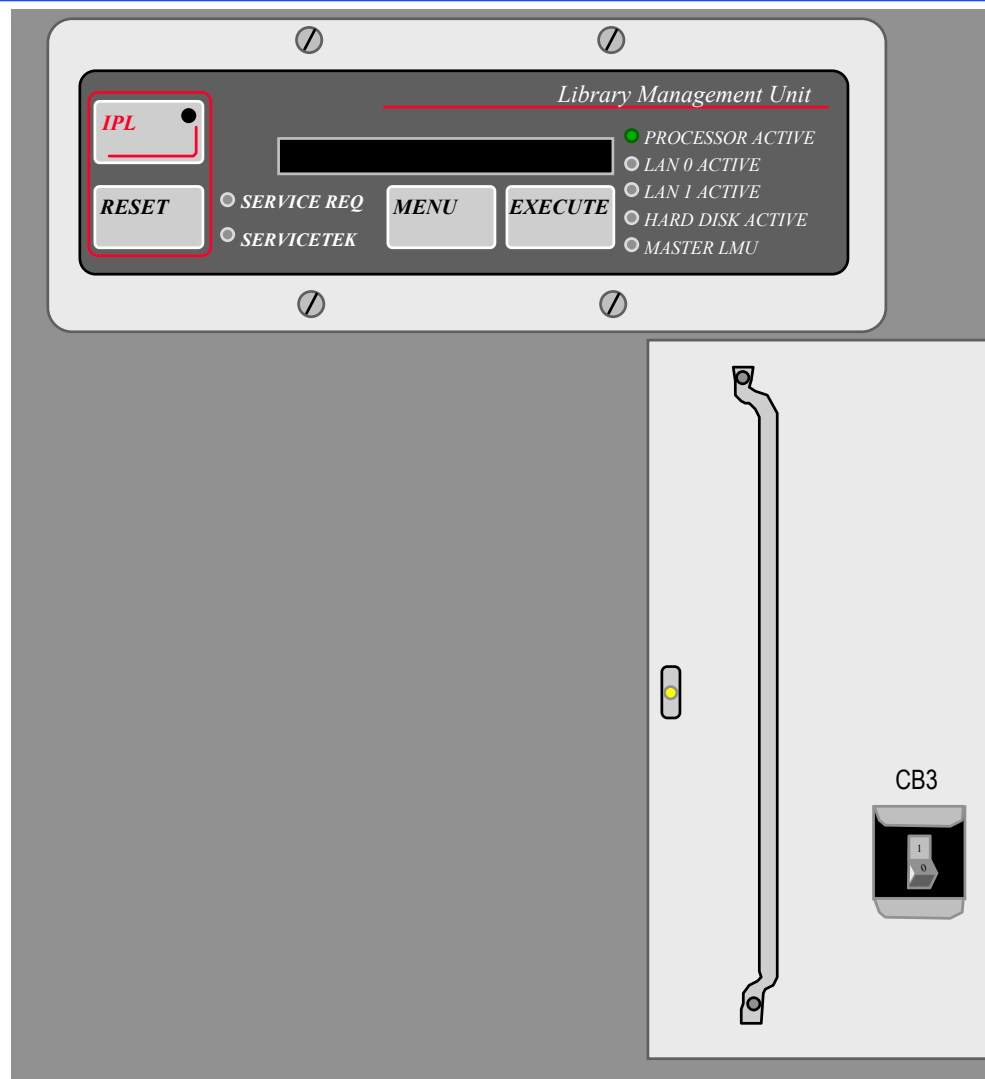
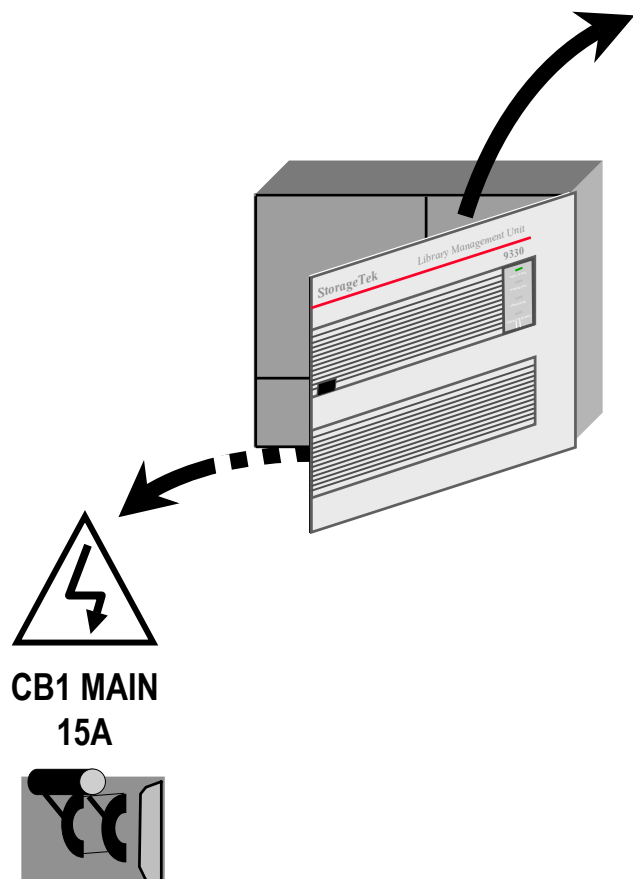
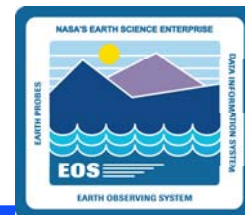
# STK Controls/Displays: LCU



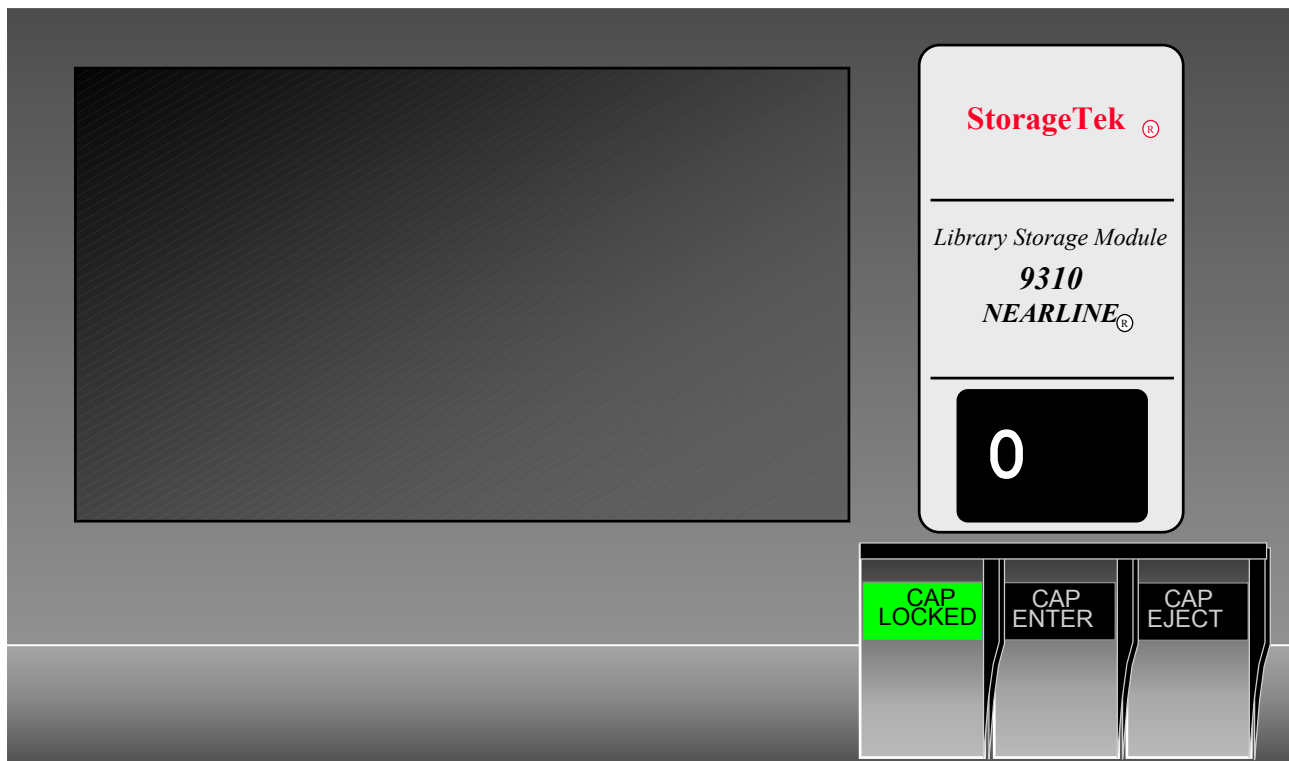
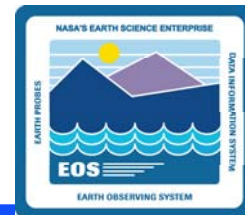
**LCU:  
Circuit Breakers  
Inside Cabinet**



# STK Controls/Displays: LMU

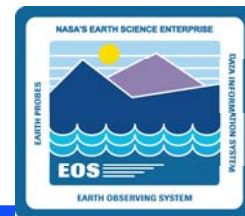


# STK Controls/Displays: LSM

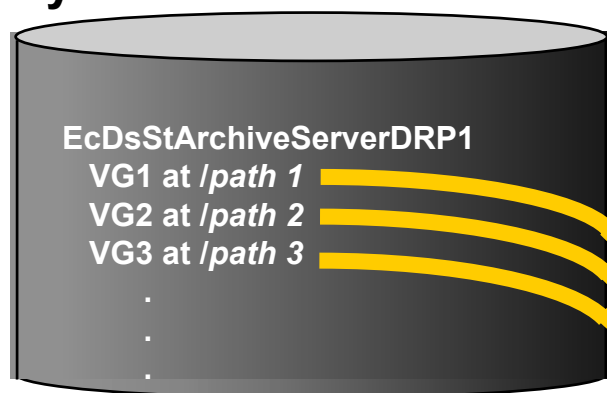




# Storage Element Relationships

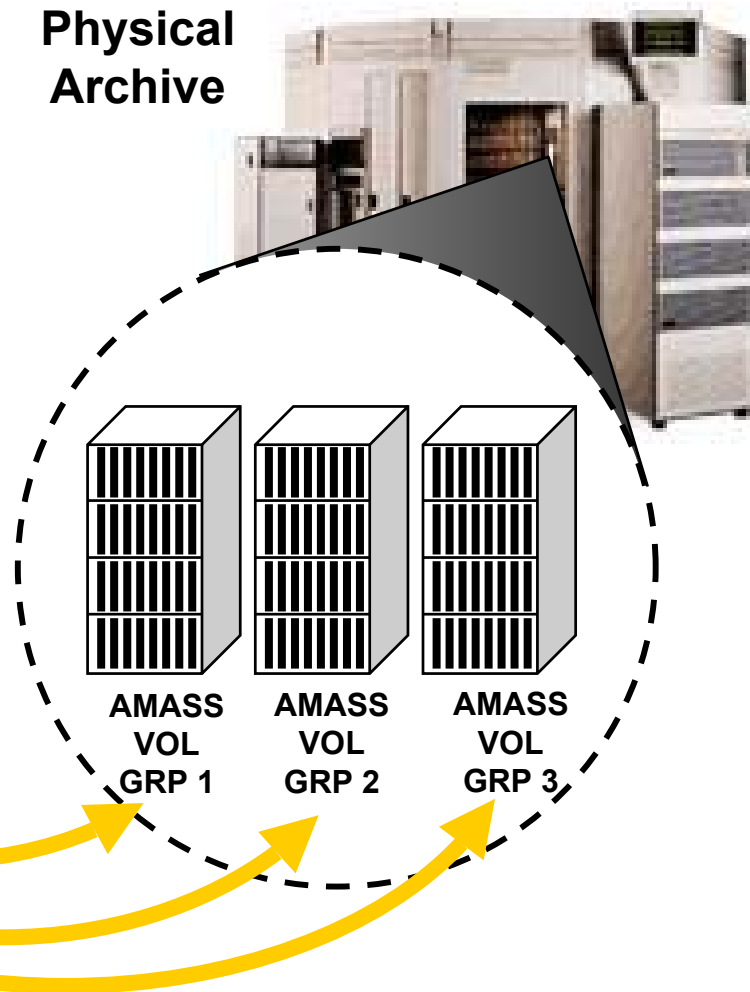


- Each physical archive (Library Storage Module) is mapped to an Archive Server application (e.g., DRP1 is served by the application EcDsStArchiveServerDRP1)
- Library may include multiple Logical Volume Groups (LVGs), each with a specified path, mapped to a volume group in the physical archive

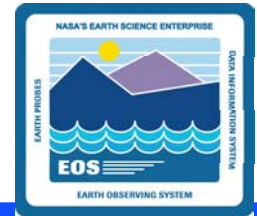


**Storage Management  
Database**

**Physical  
Archive**



# Storage Management: Storage Config. Tab



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 10:57:31 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Configuration Parameter Reporting

Server Type	# of Servers	Description	# of Re-routes
SMM	0	SMM Stacker Server	1
ARCHIVE	3	Archive Server	
CACHE MANAGER	4	Cache Management Server	
CDROM	0	CDROM Device Server	1
D3	0	D3 Device Server	1
DLT	0	DLT Stacker Server	1
FTP	4	FTP Server	
REQUEST MANAGER	1	Request Manager Server	

Times to Re-route:  Apply to Server Type:

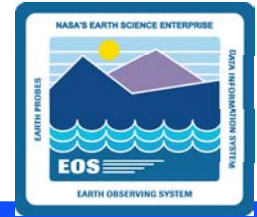
Server Name	Status
EcDsStArchiveServerACM4	Up
EcDsStArchiveServerDRP3	Up
EcDsStArchiveServerWKS1	Up

Add Server Modify Server Delete Server

Operator Messages

01/11/01 10:56:58 Error purging old database entries.

# Storage Management: Vol. Grp. Config. Tab



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 11:26:21 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Volume Group Information

Data Type Name	Current Hardware CI	Current Volume Group Path	UNIX Compression Factor	GZIP Compression Factor
MISLOBF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCAL.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODFX.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOSIX.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS2X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS3X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS1.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOS2.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOS3.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOST.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISQA.001	DRP3	/dss_stk3/TS3/ancb	0	0
MOD000.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD000X.001	DRP3	/dss_stk3/TS3/exp	0	0
MOD001.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD002.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD003.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD01.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD021KM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD022.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02HKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02LUT.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02QKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD03.001	DRP3	/dss_stk3/TS3/modhi	0	0

Find Next

Add... Modify Display History Display Statistics Reset

Operator Messages

01/11/01 11:21:20 Error purging old database entries.

Volume Group History

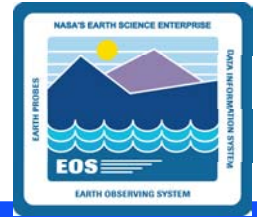
Volume Group: (ESDT Data Type.Version) MOD01.001

Volume Group History

Hardware CI History	Path History	Start Date	End Date
DRP3	/dss_stk3/TS3/mod10	11/21/00	

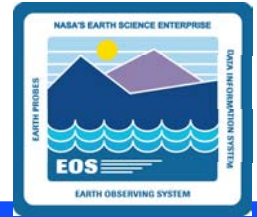
Close

# Archive-Related Applications



- **Servers (must be running)**
  - **Science Data Server (SDSRV)**
  - **Storage Management (STMGT) Servers**
    - Request Manager Server
    - Staging Disk Server
    - Cache Manager Server
    - Archive Server
    - FTP Server
    - 9940 Tape Server
    - 8mm Tape Stacker Server
  - **Data Distribution (DDIST) Server**
- **DSS Graphical User Interfaces (GUIs)**
  - **DDIST, STMGT, SDSRV**

# DSS Science Data Server GUI: Data Types Tab, with Add/Update Dialogs



Science Dataserver Operator GUI – [TS1]

File Selected Options Help

Data Types System Requests

Science Data Server – Data Types

Data Type Information

ID	Name	Version	Description
:CL.000	CL	0	
ACM1_TS1:Browse.001	Browse	1	
DRP1_TS1:ACR3L2OM.001	ACR3L2OM	1	
DRP1_TS1:AIRI2REN.001	AIRI2REN	1	
DRP1_TS1:AIRX2RET.001	AIRX2RET	1	
DRP1_TS1:AIRX2SRD.001	AIRX2SRD	1	
DRP1_TS1:AIRX2SUP.001	AIRX2SUP	1	
DRP1_TS1:AIRX2TOP.001	AIRX2TOP	1	
DRP1_TS1:AIRXADCM.001	AIRXADCM	1	
DRP1_TS1:AIRXARYL.001	AIRXARYL	1	
DRP1_TS1:AIRXATCM.001	AIRXATCM	1	
DRP1_TS1:AIRXATCS.001	AIRXATCS	1	
DRP1_TS1:AIRXATLP.001	AIRXATLP	1	
DRP1_TS1:AIRXBPAR.001	AIRXBPAR	1	

Find

View Add... Update... Refresh/Reconnect

Operator Messages

Add Data Type


Descriptor Filename: File...

OK Cancel Clear Help

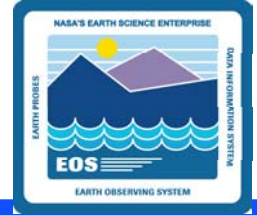
Update ESDT

Descriptor Filename: File..

OK Cancel Clear Help

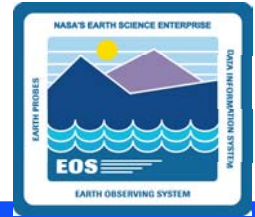
A red starburst graphic is positioned over the 'Add...' and 'Update...' buttons. Two red arrows originate from the starburst: one points to the 'Add...' button and the other points to the 'Update...' button.

# Archive Resource Management



- **For Science Software Integration and Test (SSI&T)**
  - **At the time an Earth Science Data Type (ESDT) is loaded, its characteristics are specified in Science Data Server (SDSRV) through a descriptor file identified on the SDSRV Graphical User Interface**
  - **ESDTs may be uniquely assigned to logical volume groups**
    - **Adherence to convention facilitates support of local archives by centralized resources**
    - **Cooperation through Operations Working Groups can facilitate consistency**
  - ***Note:* The logical volume group is specified as the ESDT short name with the version ID as an extension (e.g., MOD01.001)**

# Storage Management: Resource Mngmnt. Tab



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 11:23:32 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Storage Management - Resource and Drive Management

Media Type 8MM

Manage Hardware Manage Media Sets

Request ID	Media ID	Location	State
------------	----------	----------	-------

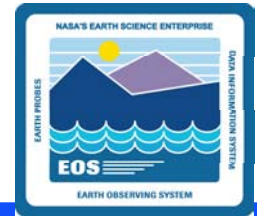
Find Media:

Operator Messages

01/11/01 11:21:20 Error purging old database entries.



# Storage Management: Cache Stats. Tab



Storage Management Control

File Options Backup Delete Help

Friday February 09, 2001 08:56:08 AM Mode: TS2

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Cache: PULL RO Cache Manager-4.000000 Text

### Cache Statistics

Current Utilization:	0.000482	Number of Resident Files:	126
Used Space (Blocks):	964242	Maximum File Size (Blocks):	244046
Free Space (Blocks):	1999035758	Minimum File Size (Blocks):	1
Total Space (Blocks):	2000000000	Average File Size (Blocks):	7857

### Cache Information

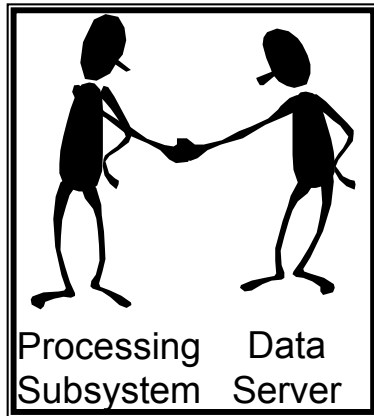
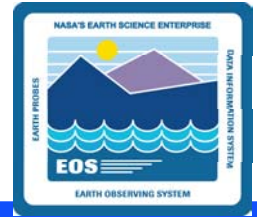
Filename	File Size	Last Accessed	Delete Flag	State
:BR:Browse.001:13800:1.BINARY	18	01/25/01	N	Expired
:LM:PGEEEX.001:1620:1.BINARY	913	02/05/01	N	
:SC:ACR3L2OM.001:13584:1.HDF	1	01/29/01	N	
:SC:ACR3L2OM.001:14170:1.HDF	1	01/26/01	N	
:SC:AM1ATTF.001:17013:1.CCSDS	15	01/29/01	N	
:SC:AMSR_L1A.001:17076:1.HDF	426	01/30/01	N	
:SC:AMSR_L1A.001:17077:1.HDF	426	01/30/01	N	
:SC:AMSR_L1A.001:17104:1.HDF	426	01/30/01	N	
:SC:AST_09T.001:9546:1.HDF-EOS	20	01/25/01	N	
:SC:DFLAXCLD.001:16980:1.HDF-EOS	14413	01/26/01	N	
:SC:L7CPF.002:13835:1.ASCII	76	01/25/01	N	
:SC:L7CPF.002:16769:1.ASCII	76	01/31/01	N	
:SC:MISCALBA.001:17015:1.CCSDS	46158	01/29/01	N	
:SC:MISCALBA.001:17015:2.CCSDS	1	01/29/01	N	

Mark Delete Unmark Delete

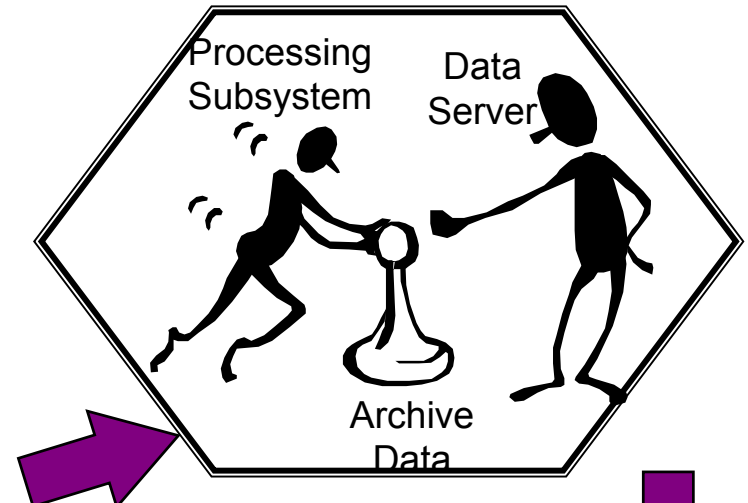
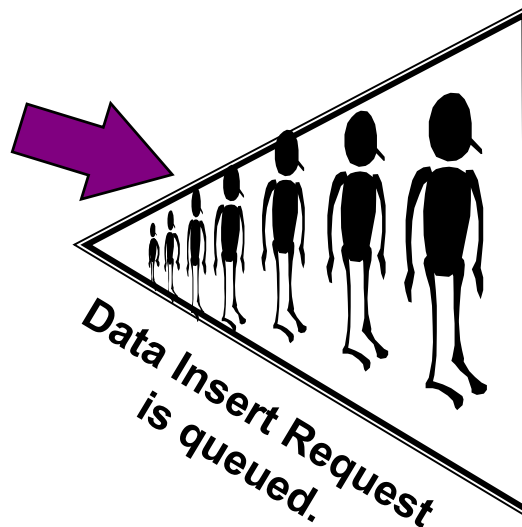
### Operator Messages

02/09/01 08:55:41 Error purging old database entries.

# Insert Data Into the Archive

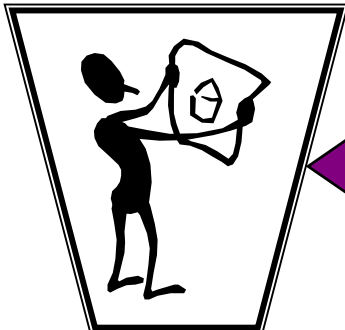


**Initiate the session.**

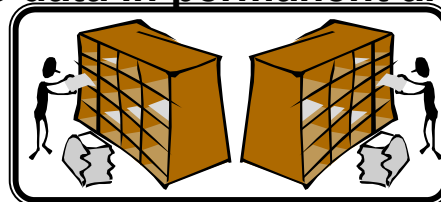


**Data are Transferred**

**Advertise the new data!**

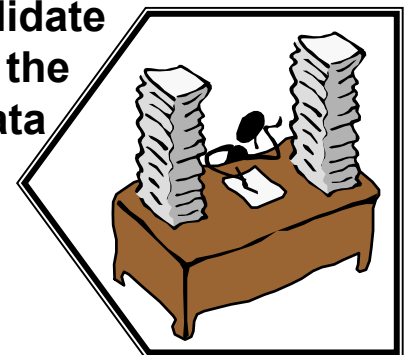


**Store data in permanent archive.**



**Store metadata in Science Data Server.**

**Validate the Metadata**



# Storage Management: Request Status



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 11:03:08 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Filtering

Request Status Information

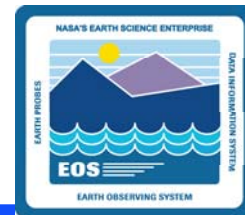
Operation	Request ID	Progress	Status	Priority	When Submitted	Last Update
ArRetrieveFile		RetrieveFailed	DsEstArPathSearchExhausted	NORMAL	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsEstRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsEstRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsEstRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsEstRemoveManDirEntry	XPRESS	11/22/00	11/22/00
CMRemoveLink		Checkpointed	DsEstRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink	MODPGE01#s07200200TS3LM:PGEEEXE.001:3959	Checkpointed	DsEstRemoveManDirEntry	XPRESS	12/06/00	12/06/00
CMRemoveLink	MODPGE02#s20020500TS3496SC:MOD02LUT.001:	Checkpointed	DsEstRemoveManDirEntry	XPRESS	12/06/00	12/06/00
CMRemoveLink	MODPGE02#s20020500TS3SC:MOD02LUT.001:427	Checkpointed	DsEstRemoveManDirEntry	XPRESS	12/12/00	12/12/00
CMRemoveLink	MODPGE01#s07200200TS3LUMSC:MOD03LUT.001:	Checkpointed	DsEstRemoveManDirEntry	XPRESS	12/12/00	12/12/00
CMRemoveLink	MODPGE01#s07200200TS3SC:MOD03LUT.001:456	Checkpointed	DsEstRemoveManDirEntry	XPRESS	12/13/00	12/13/00
CMRemoveLink	MODPGE01#s07200200TS3ADsSC:MOD03LUT.001:	Checkpointed	DsEstRemoveManDirEntry	XPRESS	12/13/00	12/13/00

Operator Messages

01/11/01 10:56:58 Error purging old database entries.



# Data Server: Distrib'n Requests Window



Data Distribution Operator GUI – TSI

File Selected Edit View Options Help

Distrib'n Requests System Requests Tape IDs Preamble Editor Event Logging

Data Distribution – Track Activity

Data Distribution Requests Items: 12

Mod	Request ID	Requester	Esdt Type	Media	Priority	State	Status Mnemonic	Submission Time
<input type="checkbox"/>	0000000057	ECSTGuest	AST_04.001	FtpPull	Normal	Cancelled	DsEstRequestCancelled	02/08/2000 19:
<input type="checkbox"/>	38194030890141	cmshared	AST_04.001	FtpPush	Normal	Cancelled	DsEstRequestCancelled	02/08/2000 19:
<input type="checkbox"/>	40162251599806	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 16:
<input type="checkbox"/>	40162251601126	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 16:
<input type="checkbox"/>	40162253100522	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 16:
<input type="checkbox"/>	40193629774881	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193630937904	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	4019363627040	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193638911613	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193641839677	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193644947334	cmts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	44173619562305	cmts1	MOD000.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/14/2000 17:

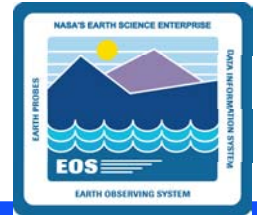
Find

Change Priority: Xpress Apply Refresh

Mark Shipped Cancel Suspend Resume Suspend All Resume All

Operator Messages

# Distribution Filter Requests Window



**Distribution Filter Requests**

☐ Request ID

☐ Requester

☒ All Requests

**Media Type:**

SMM	All None
CDROM	
D3	
DLT	
FtpPull	
FtpPush	

**State:**

<input checked="" type="checkbox"/> Pending	<input checked="" type="checkbox"/> Suspended
<input checked="" type="checkbox"/> Active	<input checked="" type="checkbox"/> Suspended with Errors
<input checked="" type="checkbox"/> Staging	<input checked="" type="checkbox"/> Waiting for Shipment
<input checked="" type="checkbox"/> Transferring	<input checked="" type="checkbox"/> Shipped
<input checked="" type="checkbox"/> Cancelled	<input checked="" type="checkbox"/> Failed

All None

OK Apply Cancel Help

# Retrieval of Data from the Archive



- **Largely automated process in response to data distribution requests**
  - data orders from scientists or other ECS end users
    - one-time orders
    - standing orders placed as subscriptions for acquiring data
  - data requests from other ECS sites
    - cross-DAAC orders for end users.
    - data needed as input for processing at other sites (subscriptions placed for ingest by those sites)
  - internal requests for data needed for processing
- **DSS Distrib'n Requests window to monitor**

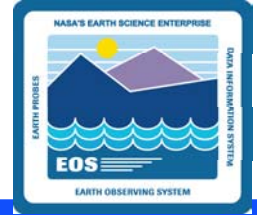


# Granule Deletion



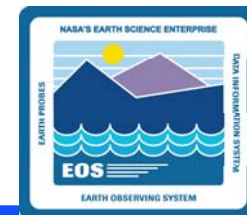
- **Granule Deletion Tool allows operators to delete products on demand**
  - Old granules replaced by reprocessing with new PGEs
  - Lower-level interim products not retained, but inventory records kept for production history
  - Defective granules replaced by reprocessing
  - Subsetted products distributed through ECS but periodically deleted with scripts
- **Front-end, command-line utility for deletion**
  - Confirmation required (may be suppressed for background execution of deletion script)
  - Deletions and related errors captured in SDSRV application log, as well as deletion logs

# Granule Deletion (Cont.)



- **Deletion sequence: Three elements**
  - **Command-line utility for “logical” deletion: Flags granules in inventory (SDSRV) as deleted**
    - **Delete from Archive (DFA) only**
    - **Physical Deletion from SDSRV inventory and from Archive**
    - **Note: Undelete options available for recovery of granules marked for deletion**
  - **Physical deletion script (SDSRV): Removes inventory entries and creates list of granule files now eligible for deletion from the archive; writes list to STMGT database**
  - **STMGT GUI screen for removal of rows from STMGT database**
- **Operators may use AMASS commands (*volcomp*, *volclean*, *volformat*, *volstat*) to reclaim archive tape space and recycle tapes**

# Granule Deletion (Cont.)



**Storage Management Control**

File Options Backup Delete

Thursday January 11, 2001 10:56:58 AM

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats.

Configuration Parameter Report

Server Type	# of Servers	Description
SMM	0	SMM Stacker Server
ARCHIVE	3	Archive Server
CACHE MANAGER	4	Cache Management Server
CDROM	0	CDROM Device Server
D3	0	D3 Device Server
DLT	0	DLT Stacker Server
FTP	4	FTP Server
REQUEST MANAGER	1	Request Manager Server

Times to Re-route: [ ]

Server Name Status

EcDsStArchiveServerACM4	Up
EcDsStArchiveServerDRP3	Up
EcDsStArchiveServerWKS1	Up

Add Server Modify Server

Operator Messages

01/11/01 10:56:58 Error purging old database entries

**Batch Delete**

Granule Deletion Information

Versioned Data Type	Number of Files
L7IGS.001	2
MOD01.001	25
MOD021KM.001	141
MOD03.001	24
MOD29.001	135
PH.001	205

Select All Reset Delete

Failed Deletion List

Filename	Versioned Data Type	Server Name	Path	Error Code
----------	---------------------	-------------	------	------------

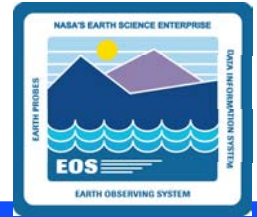
Close

# Loading/Removing Archive Media



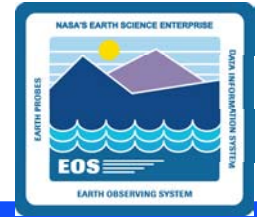
- **STK Powderhorn: Cartridge Access Port (CAP)**
  - 21 Tapes
- **Automatic loading (recommended for most loading)**
- **Manual loading (available for initial loading or other bulk loading)**

# Archive Backups



- **Programmatic backups are part of design requirements**
  - **Active archive copy (use *Archive ID* -- ShortName and VersionID)**
    - e.g., AST\_L1B.001
  - **Local backup storage copy (use *Backup ID*)**
    - Append “B” -- e.g., AST\_L1B.001B
  - **Off-site backup storage copy (use *Offsite ID*)**
    - Append “O” -- e.g., AST\_L1B.001O
- **Archive manager needs to create volume group for offsite backups, using STMGT GUI**
- **Selection of data for backup dependent on factors such as feasibility of recovery by other means (e.g., re-ingest, reprocess)**
- **Each site is responsible for arranging its own secure offsite storage**

# Storage Management: Vol. Grp. Config. Tab Add Dialog



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 11:26:21 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Volume Group Information

Data Type Name	Current Hardware CI	Current Volume Group Path	UNIX Compression Factor	GZIP Compression Factor
MISLOBF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCAL.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODFX.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOSIX.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS2X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS3X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS1.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOS2.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOS3.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOTST.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISQA.001	DRP3	/dss_stk3/TS3/ancb	0	0
MOD000.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD000X.001	DRP3	/dss_stk3/TS3/exp	0	0
MOD001.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD002.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD003.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD01.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD021KM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD022.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02HKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02LUT.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02QKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD03.001	DRP3	/dss_stk3/TS3/modhi	0	0

Add... Modify Display History Display Statistics Reset

Operator Messages

01/11/01 11:21:20 Error purging old database entries.

Add Volume Group

Data Type.Version: [ ]

HWC1: [ ]

Volume Group Path: [ ]

UNIX Compression Factor (%): [0]

GZIP Compression Factor (%): [0]

Volume Group Type:

☒ PRIMARY ☐ BACKUP ☐ OFFSITE

OK Cancel

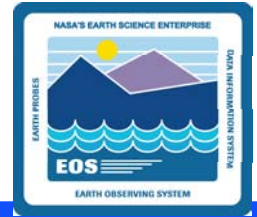
# Some AMASS Commands



- ***vollist***
  - Lists all volumes and current status
- ***dirfilelist***
  - lists files under a specified directory
- ***volfilelist***
  - lists all files on a specified volume
- **Others: See *AMASS System Administrator's Guide***

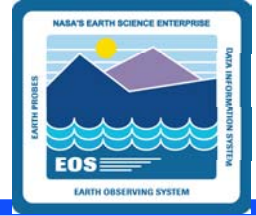


# Creating a Backup for AMASS



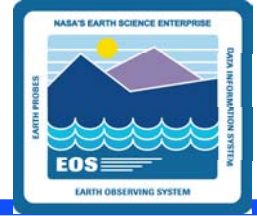
- **AMASS tape format is proprietary, designed for speed of access**
- ***vgexport -q* command creates an ASCII file that can be used with the tapes and *vgimport* command to recover the stored data**

# Replace Backup Volume (Volume 1)



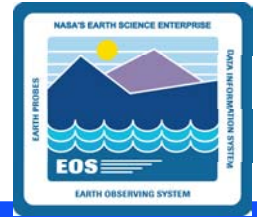
- **AMASS database backup is stored in the archive on Volume 1**
- **AMASS issues warning when Backup Volume is nearly full (95%)**
- **When warning message is received, install new Backup Volume and perform a full backup**
- **If Backup Volume gets full during attempted backup, backup will fail, necessitating replacement and full backup**

# Manual Backup of Archive Data



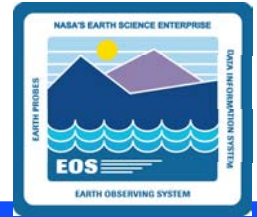
- **Necessary when a backup data tape is used and must be replaced**
- **Data restoration using a backup data tape is achieved by inserting the tape into the archive**
- **To replace the tape requires manual creation of a copy**

# Restoring Archive Data



- **Copy from backup to primary (using UNIX)**
- **Reprocess lower-level data to obtain lost higher-level product**
  - Recovered granule has a new UR and a new production date and time
- **Request replacement from data provider**
  - Some data providers do not offer replacement (e.g., Landsat-7)
  - EDOS provides L0 backup for ECS; replacement data on DTF-2 tape
- **Restoring AMASS/ACSLs database**
  - For AMASS: `amassrestore`
  - For ACSLS: `rdb.acsss`

# End-to-End Data Tracking System for Access to EOS Data Reorder Tool



End-to-End Data Tracking System - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: http://eds1.gsfc.nasa.gov/8080/index.html

What's Related

## End-to-End Data Tracking System

### EDTS Mission Specific Reports

Terra	<a href="#">Daily</a>	<a href="#">10 Day</a>
Aqua	<a href="#">Daily</a>	<a href="#">10 Day</a>
ICESat	<a href="#">Daily</a>	<a href="#">10 Day</a>
Aura	<a href="#">Daily</a>	<a href="#">10 Day</a>

### EDTS Data User Reports

<a href="#">EMOS FDS Daily</a>
<a href="#">GES DAAC Daily Page</a>
<a href="#">ASDC DAAC Daily Page</a>
<a href="#">NASDA/NSIDC DAAC Daily Page</a>
<a href="#">LaTIS Daily Page</a>
<a href="#">Aqua RBD Daily Page</a>
<a href="#">EDTS Data Download</a>

### Related Links

Data Reorder	<a href="#">Terra</a>	<a href="#">Aqua</a>	<a href="#">Aura</a>	<a href="#">ICESat</a>
Top 5 Reorders	<a href="#">Terra</a>	<a href="#">Aqua</a>	<a href="#">Aura</a>	(Password Req'd)
SSR Loss	<a href="#">Terra</a>	<a href="#">Aqua</a>	<a href="#">Aura</a>	ICESat
Carryout Status	<a href="#">Terra</a>	<a href="#">Aqua</a>	<a href="#">Aura</a>	
Whiteboard	<a href="#">Terra</a>	<a href="#">Aqua</a>	<a href="#">Aura</a>	
	<a href="#">EOS System Status</a>			
	<a href="#">EDOS System Webpages</a> (Password Req'd)			

### Documents

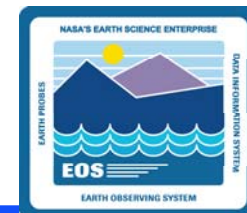
<a href="#">EDTS Bug Reporting</a>
<a href="#">EDTS Requirements</a>
<a href="#">EDTS Interface</a>

### System Administration

<a href="#">EDTS Usage Statistics</a> (Password Req'd)
<a href="#">EDTS Process Status</a>
<a href="#">EDTS Process Logs</a>

Document Done

# EOS Data Reorder Tool



Access the Data Reorder Database - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location [http://jupier02.gsfc.nasa.gov/531/reorder/]

## EOS Terra Data Reorder Request

- [Search Terra Data Reorder Database](#)
- [Add New Request](#)
- [Data Reorder Summary Report](#)
- [Distribution Matrix \(Open Requests\) - limited access \(EDOS Only, FOT Only\)](#)
- [EDOS Tape Status](#)

[Data Production](#) [Go to Data Production page](#)

[Top 5](#) [Go to Top 5 page](#)

Contact [mss@eos.nasa.gov](mailto:mss@eos.nasa.gov) for changes  
 Last Modified: May 3, 2002  
[NASA Security Warning](#)  
[NASA Privacy Statement](#)

Data Reorder New Record - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location [http://jupier02.gsfc.nasa.gov/531/reorder/FMPro7-db+Datareqfp5&lay=Detailed&format=new.htm&view=]

## EOS Terra Data Reorder Request

### Add New Request

[Data Reorder](#) [Tapes](#)

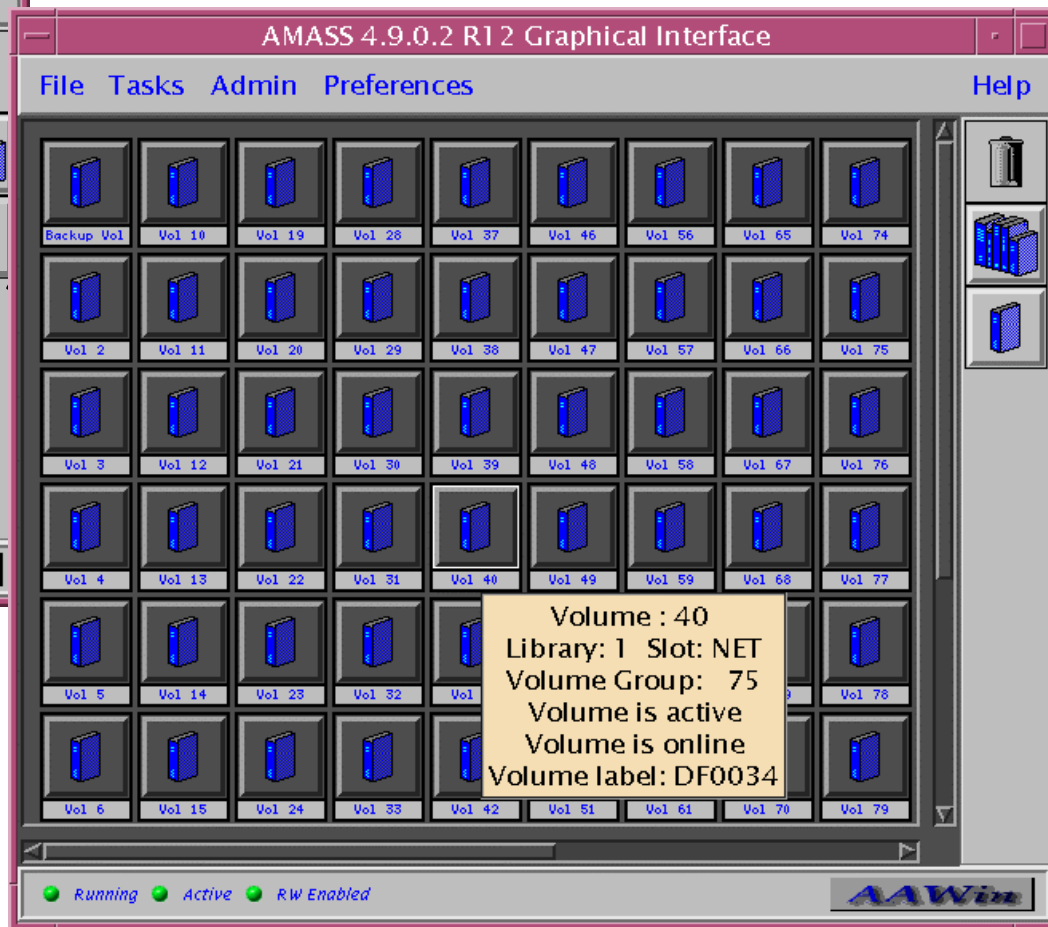
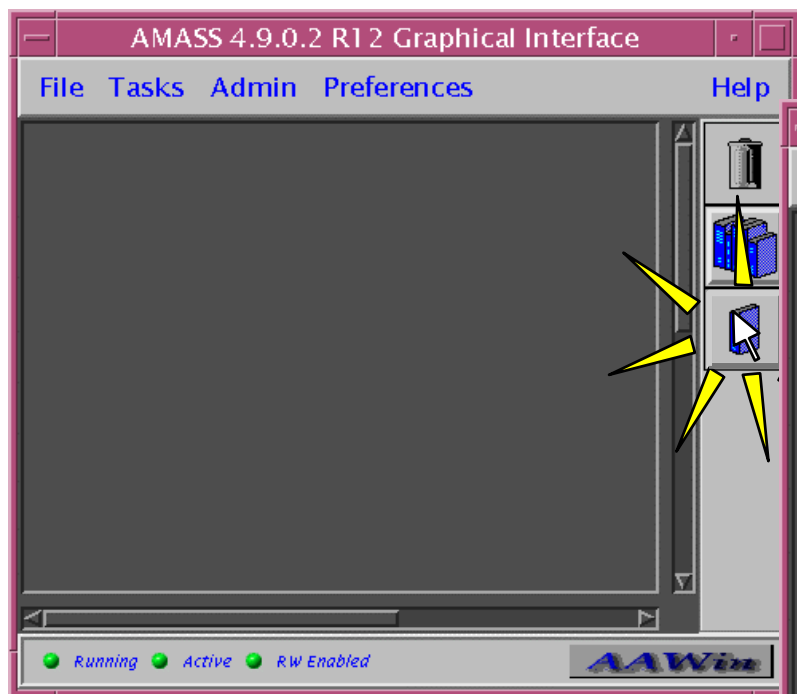
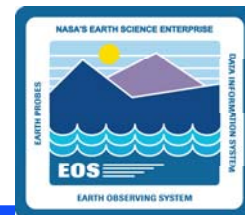
Requestor's Name*		Requestor's Organization*		Dataset:		Priority*		
<input type="text"/>		<input type="text"/>		<input type="radio"/> Missing <input type="radio"/> Partial		<input type="text" value="3"/>		
Requested data (UTC)*	Year	DOY	Start time	Stop time	Request Reason*			
	2003	1	0000	0200				
Data type(s)* (Select all that apply)	FDS	<input type="checkbox"/> Carry-out & APID1		<input type="checkbox"/> Attitude		<input type="checkbox"/> Replacement Ephemeris		
	Low Rate	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	
	MODIS	<input type="checkbox"/> 64						
	ASTER	<input type="checkbox"/> EDS	<input type="checkbox"/> 257/259	<input type="checkbox"/> 261/263	<input type="checkbox"/> 265/267	<input type="checkbox"/> 273/275	<input type="checkbox"/> 277/279	<input type="checkbox"/> 281/283
		<input type="checkbox"/> 289/291	<input type="checkbox"/> 293/295	<input type="checkbox"/> 297/299	<input type="checkbox"/> 305-307	<input type="checkbox"/> 309-311	<input type="checkbox"/> 313-315	
	CERES	<input type="checkbox"/> 131	<input type="checkbox"/> 132	<input type="checkbox"/> 133	<input type="checkbox"/> 167	<input type="checkbox"/> 168	<input type="checkbox"/> 169	
	MOPIIT	<input type="checkbox"/> 192	<input type="checkbox"/> 193	<input type="checkbox"/> 194	<input type="checkbox"/> 195	<input type="checkbox"/> 196		
		<input type="checkbox"/> 320	<input type="checkbox"/> 323	<input type="checkbox"/> 325	<input type="checkbox"/> 326	<input type="checkbox"/> 329	<input type="checkbox"/> 330	
		<input type="checkbox"/> 332	<input type="checkbox"/> 335	<input type="checkbox"/> 337	<input type="checkbox"/> 338	<input type="checkbox"/> 340	<input type="checkbox"/> 343	
	MISR	<input type="checkbox"/> 338	<input type="checkbox"/> 340	<input type="checkbox"/> 343	<input type="checkbox"/> 344	<input type="checkbox"/> 347	<input type="checkbox"/> 349	<input type="checkbox"/> 350
	<input type="checkbox"/> 356	<input type="checkbox"/> 359	<input type="checkbox"/> 360	<input type="checkbox"/> 365	<input type="checkbox"/> 373	<input type="checkbox"/> 374	<input type="checkbox"/> 378	
Comments								
Actionee Org* <input type="radio"/> EDOS <input type="radio"/> FOT								

^ Required field

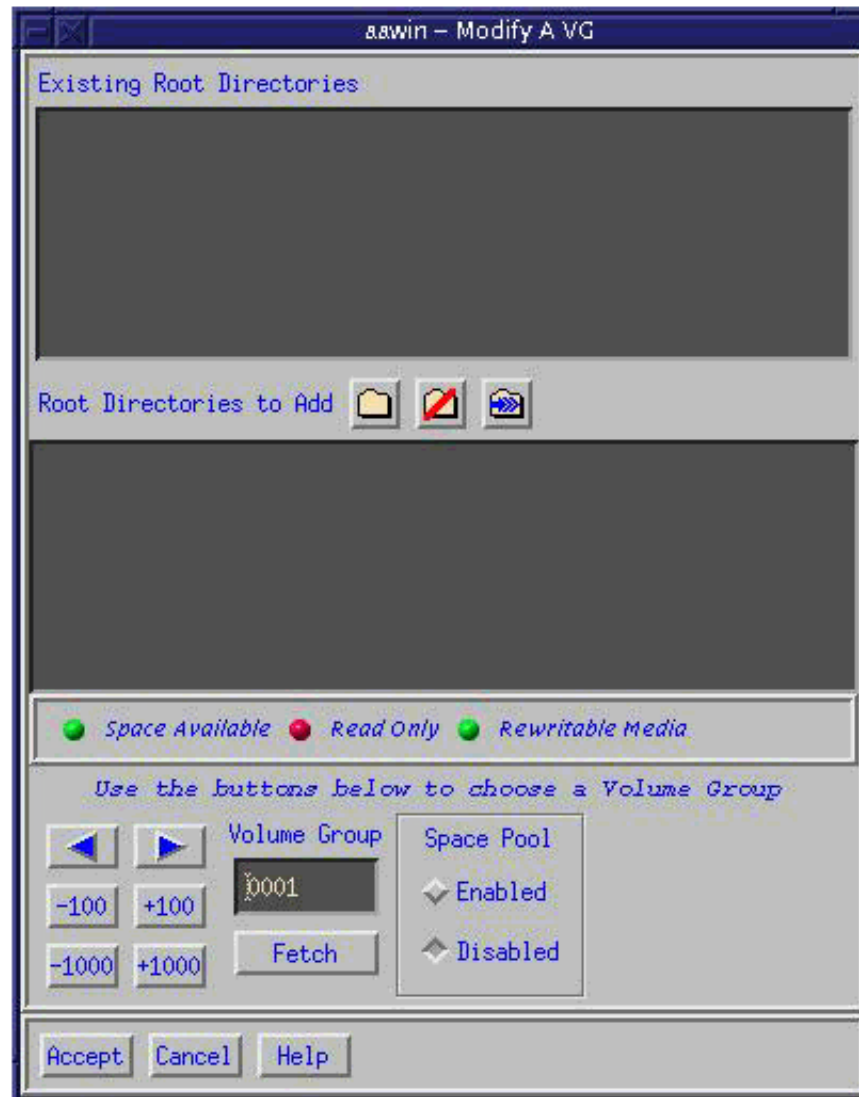
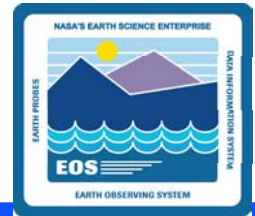
Data Reorder Priorities	
Priority 1:	Critical Data needed within 24-48 hours. This includes expedited data, calibration data, and any other data identified by the instrument team as critical path data.
Priority 2:	Important Data observation or activity (e.g., targets of opportunity)
Priority 3:	All other data needs

[Return to Home Page](#)

# AMASS GUI

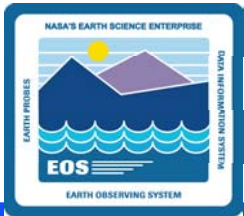


# AMASS GUI: Modify A VG Screen





# AMASS GUI: Modify A Volume Screen



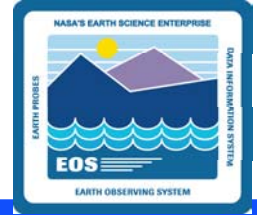
aawin - Modify A Volume

Volume	65	Slot	: NET
Volume Group	75	Library	: 1
Online	<input checked="" type="radio"/>	Format Type	: Yes
Active	<input checked="" type="radio"/>	Error count	: 0
Format Request	No <input type="checkbox"/>	R/W status	: R/W
Block Size	16384	Volume in use	: True
Volume Label		Media type	: TAPE
		Last PBN	: 0x00000001
		Block size	: 16384
		Total blocks	: 1220672
		Blocks Used	: 1
		Dead space	: 0%

DF0059

Accept Cancel Help

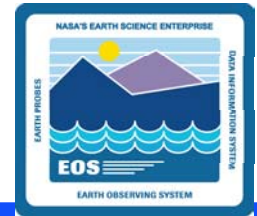
# Monitoring and Troubleshooting



## Some Common Archive Problem Resolutions

Symptom/Problem	Response
Unable to log in to the FSMS host (e.g., x0drg01)	Check with the Operations Controller/System Administrator to ensure that the host is "up."
AMASS is not running	Have the System Administrator restart AMASS.
A volume is inactivated by AMASS	Check for AMASS errors and, unless there are many errors, use the command <code>/usr/amass/bin/volstat -a &lt;vol_number&gt;</code> to re-activate the volume. [For detailed instructions, refer to the procedure <b>Use the <i>amass_log</i> script to Display AMASS Errors</b> (subsequent section of this lesson).]
A storage system robot gets out of synchrony with AMASS concerning the location of media.	Re-establish synchrony. [For detailed instructions, follow the procedure <b>Use <i>mediamove</i> to Establish Synchrony Between <i>quedisplay</i> and <i>medialist</i></b> (subsequent section of this lesson).]
An Ingest or Data Processing action cannot complete because of failure to store data (reflected as failure on Ingest or Processing GUIs).	Check to ensure AMASS is on line; check for file copy errors, network problems, mount point problems. [For detailed instructions, refer to the procedure for <b>Recovery from Failure to Store Data</b> (subsequent section of this lesson).]

# Storage Management: Storage Events Tab



**Storage Management Control**

File Options Backup Help

Thursday January 11, 2001 11:06:30 AM Mode: TS2

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

**Event Log Search Parameters**

Date Interval: Begin 01 / 11 / 2001 End 01 / 11 / 2001

Event Type: Any Event Level: Any

Message:

Search Clear Parameters

Search Records Found: 2

**Event Log**

Number	Date	Level	Type	Message
30105	01/11/01	SEVERE	SOFTWARE	Error in restore from Backup sources in Archive
30105	01/11/01	SEVERE	SOFTWARE	Error in Archive Retrieve using primary path, s

Purge Selected

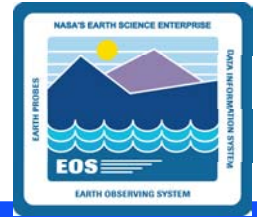
**Operator Messages**

01/11/01 11:03:53 Old database entries were successfully purged.

**Event Type:** Any  
Device  
Cache  
Software  
COTS  
Sybase  
Pulldisk  
Unknown

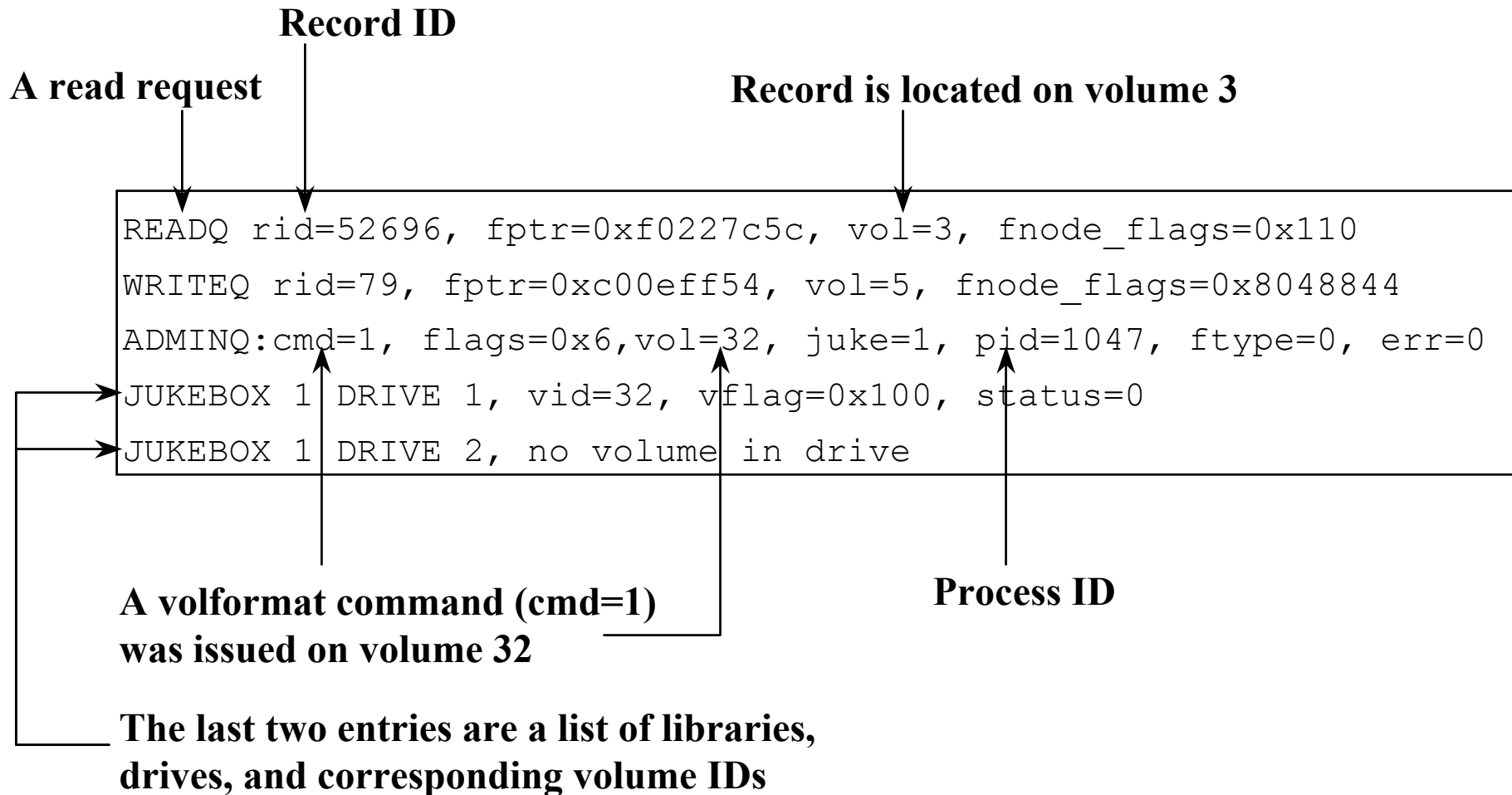
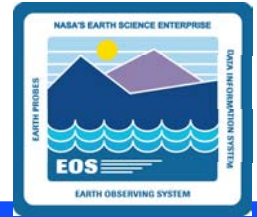
**Event Level:** Any  
Information  
Warning  
Error  
Severe  
Fatal  
Unknown

# AMASS Monitoring Commands, Utilities, and Scripts



- ***healthcheck*** is a command providing status on basic AMASS functions and capabilities
- ***sysperf*** is a command to display AMASS I/O activity
- ***amass\_log*** is a script permitting display of AMASS messages from the system log
- ***quedisplay*** is a library utility used to view the AMASS queue and diagnose problems
- ***medialist*** shows robot's view of media and their slot locations
- ***mediamove*** can establish synchrony between ***quedisplay*** and ***medialist***
- There are other utilities and scripts described in ***AMASS System Administrator's Guide***

# Sample Output from *quedisplay*

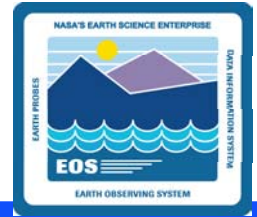


# Recovery from Failure to Store or Retrieve Data



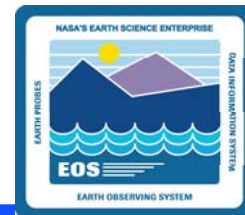
- **Successful storage depends on many functions**
  - Archiving of granules (can be compromised by network problems, mount point problems, AMASS being off line)
  - Entry of metadata in SDSRV inventory database
  - Successful staging disk creation and cache management
- **Troubleshooting**
  - Check server logs (including Request Manager server debug log)
  - Check *tac* log for interaction of AMASS and ACSLS
  - Use *amass\_log* script to display errors
    - » Corrective action from *AMASS System Administrator's Guide*
    - » Resume action

# Checking Server Log Files



- **\*.ALOG**
- **\*Debug.log**
  - Get parameters from Registry
  - Load resource catalogs
  - Pre-cache database connectivity errors
  - Get server configuration parameters
  - Spawn receptionist thread and register server in database
  - Spawn service threads
  - Process Restart Notification for server restart
  - Check queue for requests (“Waiting for an event”)
  - Communication between calling and called server

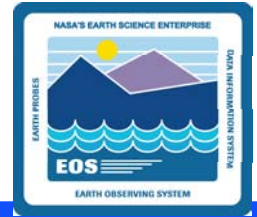
# Checking Request Manager Server Debug Log



- **Request Manager handles requests from outside of Storage Management**
  - Requests for STMGT processing are checkpointed (registered in the database)
  - “Trivial” requests (serviceable through SQL) are not checkpointed
- **Manages concurrent activities through threads**
  - Manager thread (assigns requests to service threads)
  - Service thread (services requests, logs progress)
  - Receptionist thread (registers server as “up,” monitors socket for connections from other servers)
  - Others (Inbound RPC thread, Housekeeper thread)
- **Transactions among threads recorded in Debug Log**

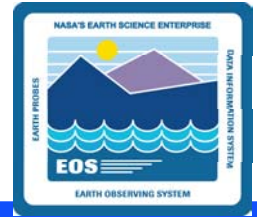


# Checking *tac* Log



- **tac log records interactions between AMASS and ACSLS**
- **New log each day**
  - Current log: **tac\_00**
  - Prior logs: **tac\_00:date:time**
- **Log identifies AMASS commands to ACSLS concerning tape operations; can provide useful information concerning failures related to problems in these transactions**
- **Communication failure may signal a need to check for synchrony between AMASS and ACSLS (*quedisplay* vs. *medialist*)**

# Handling Data Insertion Failure



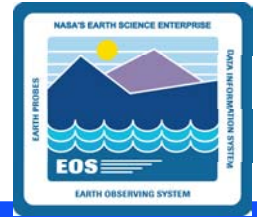
- **Check Logs (and run EcCsldPingServers)**
  - **EcDsScienceDataServerDebug.log**
  - **EcDsStArchiveServerDebug.log**
  - **EcDsStStagingDiskServerDebug.log**
  - **EcDsStCacheManagerServerDebug.log**
  - **EcDsStRequestManagerServerDebug.log**
  - **EcSbSubServerDebug.log**
- **Check Archive Script**
- **Look in directory *dss\_stk<#>/<MODE>/datatype* for file**
- **Check Mount Points**
- **Check Staging Disk**
- **Check Archive Volume Group Set-up**

# Handling Data Acquire Failure

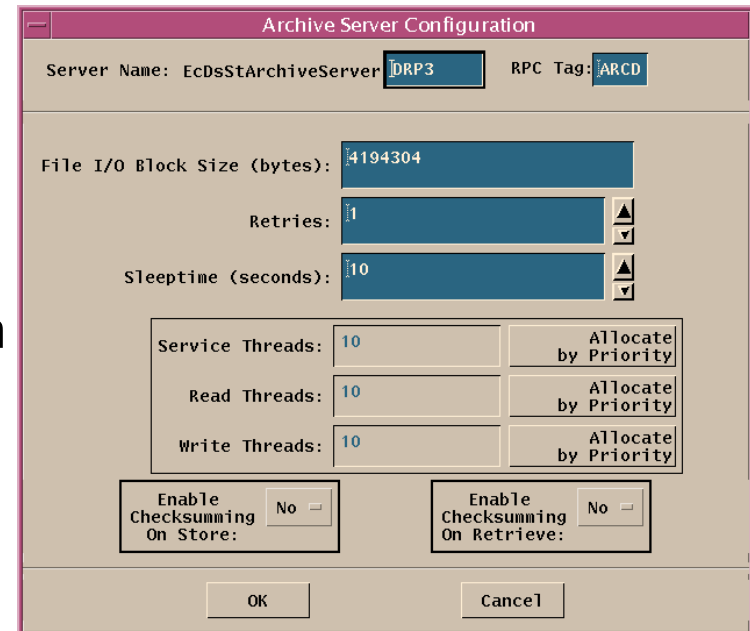


- Check for Request on Science Data Server GUI
- Check Logs (and run EcCsldPingServers)
  - EcDsScienceDataServer.ALOG
  - EcDsScienceDataServerDebug.log
  - EcDsStArchiveServerDebug.log
  - EcDsStRequestManagerServerDebug.log
- Check arrival in DDIST cache on Distribution Server
  - /usr/ecs/<MODE>/CUSTOM/drp/<archivehost>/data/staging/cache
- Check More Logs
  - EcDsStStagingDiskServerDebug.log
  - EcDsStCacheManagerServerDebug.log
- Check Space in Staging Area on Distribution Server with command **df -k** .
  - /usr/ecs/<MODE>/CUSTOM/drp/<archivehost>/data

# Checksum De-activation (Default)



- **System design incorporates calculation of checksum on granule insertion**
  - Supports detection of data corruption
  - Comparison of original checksum with checksum calculated on data retrieval from the archive
  - Default configuration deactivates calculation to improve system throughput; set by highlighting Archive Server on Storage Config. tab of Storage Management GUI and clicking “Modify Server” button
  - Compromises detection of data corruption
  - Partial alleviation by comparison of checksums calculated on sequential data retrievals



Archive Server Configuration

Server Name: EcDsStArchiveServer  RPC Tag:

File I/O Block Size (bytes):

Retries:  ▲ ▼

Sleeptime (seconds):  ▲ ▼

Service Threads:	<input type="text" value="10"/>	<input type="checkbox"/> Allocate by Priority
Read Threads:	<input type="text" value="10"/>	<input type="checkbox"/> Allocate by Priority
Write Threads:	<input type="text" value="10"/>	<input type="checkbox"/> Allocate by Priority

Enable Checksumming On Store:  ☐

Enable Checksumming On Retrieve:  ☐

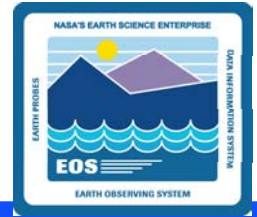
OK Cancel

# Data Pool Management



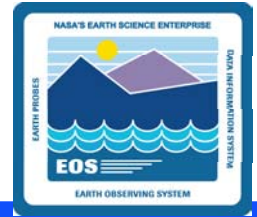
- **Features of the Data Pool Maintenance GUI**
  - Most Archive or support personnel tasks for monitoring and maintaining the Data Pool require the use of the Data Pool Maintenance (DPM) GUI
  - The DPM GUI permits an operator to perform tasks in the following general areas:
    - » Monitoring Data Pool Active Insert Processes and Insert Actions
    - » Managing Data Pool File Systems
    - » Enabling/Disabling Data Compression
    - » Managing Compression Algorithms
    - » Managing Cloud Cover Information
    - » Checking the Status of Batch Inserts
    - » Checking the Data Pool Insert Queue

# Data Pool Management



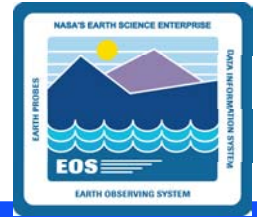
- **Features of the Data Pool Maintenance GUI (Cont.)**
  - The DPM GUI permits an operator to perform tasks in the following general areas (Cont.):
    - » Managing Data Pool Configuration Parameters and Data Pool Tuning
    - » Managing Data Pool Collection Groups
    - » Managing Data Pool Collections within Collection Groups
    - » Managing Themes

# Data Pool Management



- **Features of the Data Pool Maintenance GUI (Cont.)**
  - **New operator GUI security standards require the following two levels of permissions for the DPM GUI:**
    - » **Full Capability**
    - » **Limited Capability**
  - **Full-capability operators have the ability to configure parameters and perform all other actions that can be accomplished with the DPM GUI**
  - **Limited-capability operators are able to view a lot of information**
    - » **However, on the limited-capability GUI some buttons and links have been disabled so it is not possible to perform certain actions or access certain pages**

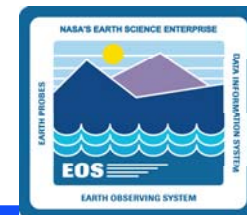
# Data Pool Management



- **Features of the Data Pool Maintenance GUI (Cont.)**
  - This lesson provides instruction in the full-capability version of the DPM GUI
    - » However, the functions that are available to limited-capability operators as well as the functions that are not available to limited-capability operators are identified



# DPM GUI: Home Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmHomePage.pl Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)  
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#) [End Session](#)

[Refresh Home Page](#)

Screen Refresh Rate  (in Secs)  Last Screen Refresh on Sat Feb 21 09:13:37 EST 2004

Active Insert Processes  rows

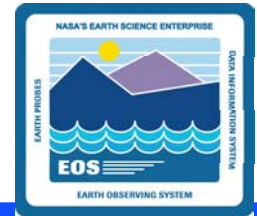
File System Label	Free Space Flag	Availability	Min Freed Space in MB
DEFAULT	State : Y Last changed:	State : Y Last changed:	10

Maximum allowed processes	30
Maximum allowed processes from AMASS cache	20
Maximum allowed processes from AMASS tape	10
Total number of active insert processes running	0
Number of active insert processes using AMASS cache	0
Number of active insert processes using AMASS tape	0

Unix ProcessId	ecsID	Collection	Version	Start Time	Status Time	Status	AMASS Cache	Retries
----------------	-------	------------	---------	------------	-------------	--------	-------------	---------

Document: Done (2.611 secs)

# DPM GUI: File System Information Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmFileSystem.pl Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

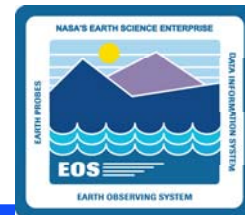
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

File System Information				
File System Label	Absolute Path	Free Space Flag	Availability	Min Freed Space (in Megabytes)
DEFAULT	/datapool/TS2/user/	State : Y Last changed:	State : Y Last changed:	10

[Add New File System](#) [Modify File System](#)

Document: Done (2.337 secs)

# DPM GUI: Add New File System Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

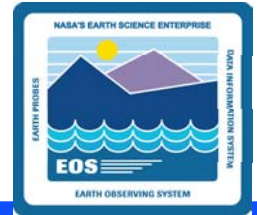
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

### Add New File System

Label	<input type="text"/>
Absolute Path	/datapool/TS2/user <input type="text"/>
Free Space Flag	<input type="checkbox"/> ON
Availability	<input type="checkbox"/> YES
Min Freed Space (in Megabytes)	<input type="text"/> MB
<a href="#">Return to previous page</a>	<input type="button" value="Apply Change"/>

Document: Done (3.572 secs)

# DPM GUI: Modify File System Information Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmFileSystem.pl?Modify Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

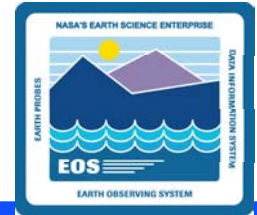
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

Modify File System Information					
File System Label	Absolute Path	Free Space Flag	Availability	Min Freed Space ( in Megabytes )	Click on box to modify
DEFAULT	/datapool/TS2/user	<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input checked="" type="radio"/> YES <input type="radio"/> NO	10	<input type="checkbox"/>

[Return to previous page](#)

Document: Done (1.472 secs)

# DPM GUI: Compression Algorithms Page




Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help


Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCompAlgorithm.pl Search Print

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Data Pool Maintenance GUI -- TS2 ...



## Data Pool Maintenance



[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

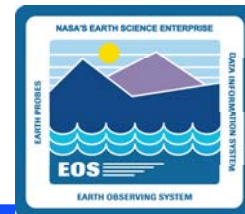
[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

Compression Label	File Extension	Compression Command	Decompression Command
HDF		/tools/bin/hdf %infile	
HDF1		/home/rgauthie/compression/hdfcompress %infile	
comp2		/bin/invalidcompress %infile	
comp4	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile
gzip2	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile
idey1	.idey	/usr/bin/gzip -1 %infile	/usr/bin/gzip -1 %infile
idey2	.idey2	/usr/bin/gzip -1 %infile	
qzipquick	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile

[Add Compression Algorithm](#)
[Modify Compression Algorithm](#)
[Deactivate Compression Algorithm](#)

Document: Done (2.445 secs)

# DPM GUI: Modify Compression Algorithm Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCompAlgorithm.pl?collAction=2 Search Print

Data Pool Maintenance GUI -- TS2 ...

**Data Pool Maintenance** TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

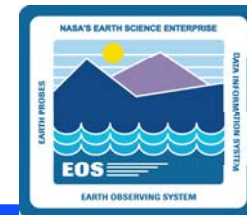
Modify Compression Algorithm				
Compression Label	File Extension (optional)	Compression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gzip -1 %infile)</i>	Decompression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gunzip -1 %infile) (optional)</i>	Check Box to Modify
HDF		/tools/bin/hdf %infile		<input type="checkbox"/>
HDF1		/home/rgauthie/compression/hdfcompress %infile		<input type="checkbox"/>
comp2		/bin/invalidcompress %infile		<input type="checkbox"/>
comp4	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile	<input type="checkbox"/>
gzip2	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile	<input type="checkbox"/>
idey1	.idey	/usr/bin/gzip -1 %infile	/usr/bin/gunzip -1 %infile	<input type="checkbox"/>
idey2	.idey2	/usr/bin/gzip -1 %infile		<input type="checkbox"/>
qzipquick	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile	<input type="checkbox"/>

[Return to previous page](#) [Apply Change](#)

**WARNING:** Modifying a compression algorithm may prevent the future decompression of a compressed granule.

Document: Done (2.512 secs)

# DPM GUI: Add Compression Algorithm Page



Data Pool Maintenance GUI — TS2 MODE — Netscape


File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop  Search Print


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Data Pool Maintenance GUI -- TS2 ...

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## Data Pool Maintenance

TS2

[Home Page](#)[Batch Summary](#)[List Insert Queue](#)[Collection Groups](#)[Themes](#)[Data Pool File Systems](#)[Compression Algorithms](#)[Cloud Cover](#)[Configuration Parameters](#)[Help](#)

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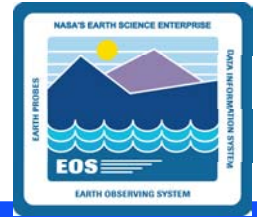
### Add Compression Algorithm

Compression Label	File Extension (optional)	Compression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gzip -1 %infile)</i>	Decompression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gunzip %infile) (optional)</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[Return to previous page](#)

Document: Done (4.854 secs)

# DPM GUI: Deactivate Compression Algorithm Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCompAlgorithm.pl?collAction=3 Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

### Deactivate Compression Algorithm

Compression Label	File Extension	Compression Command	Decompression Command	Check Box to Deactivate
HDF		/tools/bin/hdf %infile		<input type="checkbox"/>
HDF1		/home/rgauthie/compression/hdfcompress %infile		<input type="checkbox"/>
comp2		/bin/invalidcompress %infile		<input type="checkbox"/>
comp4	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile	<input type="checkbox"/>
gzip2	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile	<input type="checkbox"/>
idey1	.idey	/usr/bin/gzip -1 %infile	/usr/bin/gzip -1 %infile	<input type="checkbox"/>
idey2	.idey2	/usr/bin/gzip -1 %infile		<input type="checkbox"/>
qzipquick	.gz	/tools/bin/gzip -1 %infile	/tools/bin/gunzip %infile	<input type="checkbox"/>

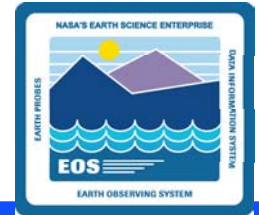
[Return to previous page](#) [Deactivate Selected](#)

Note: Deactivating a compression algorithm will remove the algorithm from the list and will also disassociate it from all collections.  
(any granules compressed with the algorithm, will still be able to be decompressed.)

Document: Done (2.414 secs)



# DPM GUI: Cloud Cover Information Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmCloudCover.pl Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

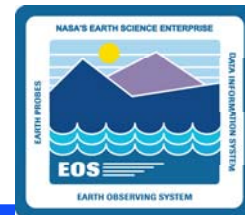
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

Cloud Cover Information			
Source Type	Source Name	Source Description	Check box to delete
Core Metadata	QAPercentCloudCover	wei's test for coremetadata	<input type="checkbox"/>
PSA	QAPERCENTNOTPRODUCEDCLOUD	wei's test for cloudcover PSA	<input type="checkbox"/>

[Add New Cloud Cover](#) [Modify Source Description](#)

Document: Done (3.372 secs)

# DPM GUI: Add New Cloud Cover Information Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

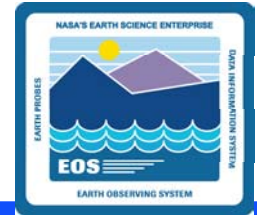
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

### Add New Cloud Cover Information

Source Type	PSA <input type="checkbox"/>
Source Name	<input type="text"/>
Source Description	<input type="text"/>
<a href="#">Return to previous page</a>	<input type="button" value="Apply Change"/>

Document: Done (2.061 secs)

# DPM GUI: Modify Source Description Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmCloudCover.pl?Modify> Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Data Pool Maintenance GUI -- TS2 ...

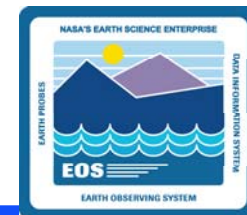
**Data Pool Maintenance** TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)  
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

Modify Source Description			
Source Type	Source Name	Source Description	Click on box to modify
Core Metadata	QAPercentCloudCover	<input type="text" value="we'l's test for coremetadata"/>	<input type="checkbox"/>
PSA	QAPERCENTNOTPRODUCEDCLOUD	<input type="text" value="we'l's test for cloudcover PSA"/>	<input type="checkbox"/>
<a href="#">Return to previous page</a>			<input type="button" value="Apply Change"/>

Document: Done (2.033 secs)

# DPM GUI: Batch Summary Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmBatchSummary.pl Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

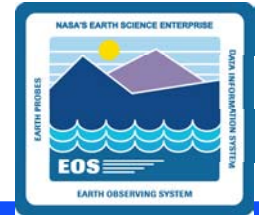
### Batch Summary

Screen Refresh Rate  (in Minutes) [Apply Refresh Rate](#) Last Screen Refresh on: Sat Feb 21 09:15:08 EST 2004

Batch Label	New	Completed	Failed	Retry	Canceled
b	0	0	1297	0	0
b.txt	0	0	2277	0	0
pvc_1	0	0	2	0	0
pvc_2	0	0	1	0	0
jstou1	0	0	1	0	0
db_iden	0	0	20	0	0
ete_ids	0	0	4	0	0
label10a	1	0	0	0	0
misr_dbIDs	0	0	128	0	0
ECS_Checkout	0	0	6	0	0
Checkout_6A08	0	0	1	0	0
Themes_AST_04	0	2	0	0	0
Checkout_Label	0	0	3	0	0
ECS Checkout DC	0	0	12	0	0

Document: Done (30.752 secs)

# DPM GUI: List Insert Queue Page



Data Pool Maintenance GUI in mode TS2 – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmInsertQueue.pl Search Print

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Data Pool Maintenance GUI in mode...

**Data Pool Maintenance** TS2

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

File System: ALL Batch Label: ignore Status: NEW/RETRY Apply Filter

Inserts Left to Process on Sat Feb 21 09:35:26 EST 2004

1

Detailed list of Data Pool Inserts using Current Filter (Number in List = 1)

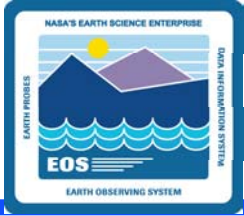
Click on the NONECS link in the Data Source column to view the XML file associated with this insert

DataSource	BatchLabel	Dispatch Priority	RequestID	SubID	ECSID	Collection	Version	Science Granules and/or Metadata	Enqueue Time	Retries	Status	Click on Box to Cancel
ECS	label10a	255	--	-1	111749	MOD43B1	004	science and metadata	Feb 20 2004 4:52PM	-	NEW	☐

Continue Apply Change

Document: Done (4.014 secs)

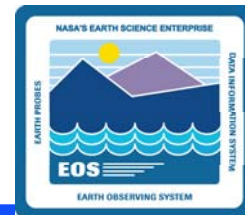
# DPM GUI: .XML File Path and Content



**Left Window:** Netscape: Data Pool Maintenance GUI in mode TS1. The address bar shows `http://p2dps01.pvc.ecs.nasa.gov:22111/cgi-bin/EcDlDpmInsertQueue.pl`. The page title is "Data Pool Maintenance". The URL bar shows `Amn0k0g0a0s0r0t0d0t0SEAWIFS0SEAWIFS0rectangle_monthly_2003-04-04_00_00_00.2.xml`. A mouse cursor is pointing at the "Return to previous page" link.

**Right Window:** Netscape: Data Pool Maintenance GUI in mode TS1. The address bar shows `http://p2dps01.pvc.ecs.nasa.gov:22111/cgi-bin/EcDlDpmInsertQueue.pl`. The page title is "Data Pool Maintenance". The URL bar shows `Amn0k0g0a0s0r0t0d0t0SEAWIFS0SEAWIFS0rectangle_monthly_2003-04-04_00_00_00.2.xml`. The page displays a "Data Pool Maintenance" header with a navigation bar containing links: Home Page, Batch Summary, List Insert Queue, Manage Configuration Parameters, Manage Collection Groups, Manage Themes, and Help. Below the navigation bar, there is a form with "Batch Label" set to "batchtest32a", "Status" set to "RETRY", and an "Apply Filter" button. The main content area displays an XML document structure, including elements like `<granuleMetadataFile>`, `<SchemaVersion>`, `<DataCenterID>`, `<granuleMetadata>`, `<CollectionMetadata>`, `<DataFilesContainer>`, `<DataGranule>`, `<RangeDateTime>`, and `<SpatialDomainContainer>`.

# DPM GUI: List of Configuration Parameters Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmConfigParms.pl Search Print

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Data Pool Maintenance GUI -- TS2 ...

**Data Pool Maintenance** TS2

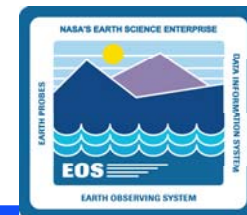
Home Page Batch Summary List Insert Queue Collection Groups Themes Data Pool File Systems  
 Compression Algorithms Cloud Cover Configuration Parameters Help

**List of Configuration Parameters**

Parameter Name	Parameter Value	Click on Box to Modify Parm
ActionQueueCleanupFrequency	600 Frequency in seconds when the action queue is checked for completed actions and those older than the configured retention are removed.	⌵
BatchSummaryAutoRefresh	5 Auto Refresh Rate for Batch Summary Screen	⌵
CompressOnInsert	ON <input checked="" type="checkbox"/> System Level Compression On Insert	⌵
DefaultRetentionPeriod	3 The number of days is configured for the default retention period with all Data Pool Insert actions.	⌵
DefaultRetentionPriority	200 The default retention priority is configured for the DataPool Insert action. The value should be between 1 and 255.	⌵
DeleteCompletedActionsAfter	2880 The time in minutes that operators let completed actions stay in the insert action queue before making them eligible for removal.	⌵
DisplayAIPChunkSize	4 Number of rows return per chunk for the AIP list	⌵
HEGCleanupAge	30 HEG Cleanup Age in days	⌵
IdleSleep	5 The number of seconds to sleep when there is nothing to do.	⌵
InCacheTimeLimit	1800 Max time in minutes operators are willing to wait for a DPIU process to complete whose files are in cache	⌵
InsertRetryWait	30 The number of seconds to wait before a insert that failed retriably should be resubmitted.	⌵
MFSONInsert	NO <input type="checkbox"/> This parameter uses by DPAD to determine whether to use the Multiple File	⌵

Document: Done (3.418 secs)

# DPM GUI: Collection Groups Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCollGroups.pl Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

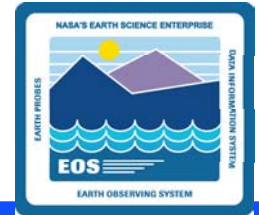
You can manage the collections of a group by clicking on the groupid

Data Source	Group ID (Click for managing collections)	Display Name	Description
ECS	<a href="#">ACRM</a>	ACRM	All collections/granules from the ACRIM mission
ECS	<a href="#">AIRA</a>	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission
ECS	<a href="#">AMSA</a>	AMSA	AMSR-E collections/granules from the Aqua mission
ECS	<a href="#">ASTT</a>	ASTT	ASTER collections/granules from the Terra mission
ECS	<a href="#">BRWS</a>	BRWS	Browse collections/granules
ECS	<a href="#">C&amp;DD</a>	C&DD	dddd
ECS	<a href="#">DASP</a>	DASP	Data Assimilation System Products
ECS	<a href="#">LSR7</a>	LSR7	All collections/granules from the Landsat 7 mission
ECS	<a href="#">MOAA</a>	MOAA	MODIS Atmosphere collections/granules from Aqua mission
ECS	<a href="#">MOAT</a>	MOAT	MODIS Atmosphere collections/granules from the Terra mission
ECS	<a href="#">MOGA</a>	MOGA	MODIS Radiometric and Geolocation collections/granules for Aqua
ECS	<a href="#">MOGT</a>	MOGT	MODIS Radiometric and Geolocation collections/granules for Terra
ECS	<a href="#">MOLA</a>	MOLA	MODIS Land collections/granules from the Aqua mission
ECS	<a href="#">MOLT</a>	MOLT	MODIS Land collections/granules from the Terra mission
ECS	<a href="#">MOOA</a>	MOOA	MODIS Oceans collections/granules from Aqua mission

Document: Done (2.345 secs)



# DPM GUI: Collection Group Detail Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCollections.pl?GroupId=MOOT Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

Data Source:ECS Group ID:MOOT Display Name:MOOT Description:MODIS Oceans collections/granules from the Terra mission

File System

### List Of Collections

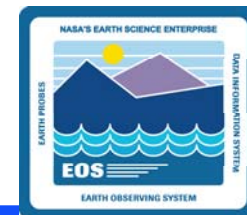
Collection (Click for Detail Information)	Version	Compression Command Label	Science Granules and/or Metadata	Data Pool Insertion	HEG Processing	Export Urls to ECHO	Quality Summary Url	Spatial Search Type	Global Coverage	Day/Night Coverage	24 Hour Coverage	Cloud Coverage
<a href="#">MOD07_L2</a>	001	NONE	science and metadata	valid for Data Pool	Disabled	No		Rectangle	No	Yes	No	No

[Add New Collection](#)
[Return to previous page](#)

You can view the detail information of a collection by clicking on the collection link

Document: Done (3.844 secs)

# DPM GUI: ECS Collection Detail Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCollections.pl?collAction=3&VersionId=1&Collection=MOD07\_L\_2 Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

**Data Source:**ECS **Group ID:**MOOT **Display Name:**MOOT **Description:**MODIS Oceans collections/granules from the Terra mission

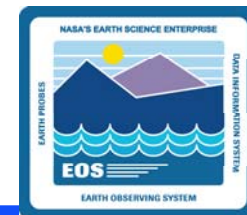
Detail Information	
Collection	MOD07_L2
Version	1
Description	Level 2 Daily global Total Ozone Burden, Atmospheric Stability, Temperature and Moisture Profiles at 20 vertical levels for temperature and 15 levels for moisture, and Atmospheric Water Vapor at 5x5 1-km resolution when at least 9 FOVs are cloud free.
File System	DEFAULT
Compression Command Label	NONE
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Inserts
HEG Processing	Disabled
Export Urls to ECHO	No
Quality Summary Url	
Spatial Search Type	Rectangle
Global Coverage	No
Day/Night Coverage	Yes
24Hour Coverage	No
Cloud Cover Type	
Cloud Cover Source	
Cloud Cover Description	

[Modify Collection](#)
[Return to previous page](#)

Document: Done (4.076 secs)

79

# DPM GUI: Collections Not in Data Pool Page



Data Pool Maintenance GUI — OPS MODE — Netscape

http://p2dps01.pvc.ecs.nasa.gov:22101/cgi-bin/EcDIdpmManageCollections.pl?collAction=4&GroupId=MOOT

**Data Pool Maintenance** OPS

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

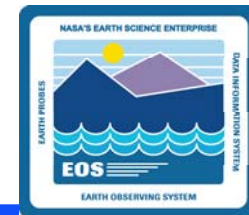
[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

**Data Source:**ECS **Group ID:**MOOT **Display Name:**MOOT **Description:**MODIS Oceans collections/granules from the Terra mission

Collections Not In Data Pool		
Collection (Click on collection to add)	Version	Description
<a href="#">ACR3L0</a>	001	This file contains Level 0 total solar irradiance data gathered by the ACRIM instrument on the ACRIMSAT satellite.
<a href="#">ACR3L2OM</a>	001	This file contains Level 2 total solar irradiance in the form of orbital means gathered by the ACRIM instrument on the ACRIMSAT satellite.
<a href="#">ACR3L2SC</a>	001	This file contains Level 2 total solar irradiance in the form of shutter cycles gathered by the ACRIM instrument on the ACRIMSAT satellite.
<a href="#">AE_L2A</a>	001	AMSR-E/Aqua global swath Brightness Temperatures are resampled at resolutions of 56 km, 38 km, 21 km, 12 km, and 5.4 km.
<a href="#">AIR10SIX</a>	001	Expedited AMSU_A1 Packet 2 - Full Scan Mode
<a href="#">AIRABDBR</a>	099	AIRS/Aqua AMSU L1B daily summary browse product
<a href="#">AIRABRAD</a>	099	AIRS/Aqua AMSU-A1 and AMSU-A2 combined geolocated and calibrated brightness temperatures in Kelvins
<a href="#">AIRB0CAH</a>	001	AIRS Calibration Data - 1 radiometric calibration packet per cycle (APID 406)
<a href="#">AIRB0SCI</a>	001	AIRS Science Data - 90 scene footprint packets per scan cycle (APID 404)
<a href="#">AIRH0SCI</a>	001	All science data collected by the HSB instrument during one scan period
<a href="#">AIRIAHRS</a>	077	AIRS/Aqua granule-level statistics of important high-rate engineering information from APIDs 414-7
<a href="#">AIRV2SFM</a>	001	Configuration parameters including optional ASCII outputs and verbosity levels
<a href="#">AIRXXPAR</a>	001	Configuration parameters including optional ASCII outputs and verbosity levels

Document: Done (4.177 secs)

# DPM GUI: Add New Collection Page



Data Pool Maintenance GUI --- TS2 MODE -- Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCollections.pl?collAction=1&GroupId=UARS

Search Print

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Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)

[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

Data Source:NON-ECS Group ID:UARS: Display Name:UARS Description:Test of insertion of Non-ECS data

### Add New Collection

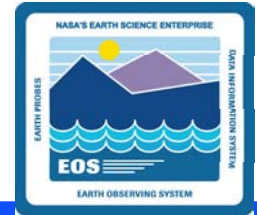
Collection	<input type="text"/>
Version	<input type="text"/>
Description	<input type="text"/>
File System	DEFAULT
Compression Command Label	NONE
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Invalid for data pool
Quality Summary Url	<input type="text"/>
Spatial Search Type	Not supported
Global Coverage	Yes
Day/Night Coverage	Yes
24 Hour Coverage	No
Cloud Cover Type & Source	NONE View Details

Apply Change

[Return to previous page](#)

Document: Done (6.368 secs)

# DPM GUI: Add Collection Group Page



Data Pool Maintenance GUI — TS2 MODE — Netscape


File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop  Search Print


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Data Pool Maintenance GUI -- TS2 ...

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## Data Pool Maintenance

TS2

[Home Page](#) [Batch Summary](#) [List Insert Queue](#) [Collection Groups](#) [Themes](#) [Data Pool File Systems](#)  
[Compression Algorithms](#) [Cloud Cover](#) [Configuration Parameters](#) [Help](#)

---

### Add Collection Group

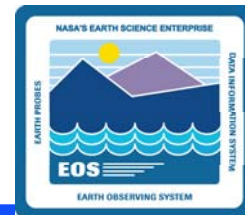
Data Source	Group ID	Display Name (Optional)	Description
<input type="text" value="ECS"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[Return to previous page](#)

NOTE: The Display Name will default to the GroupID unless specifically set to something else.

 Document: Done (2.513 secs) 

# DPM GUI: Modify Collection Group Page



Data Pool Maintenance GUI — TS2 MODE — Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDiDpmManageCollGroups.pl?collAction=2 Search Print

Data Pool Maintenance GUI -- TS2 ...

**Data Pool Maintenance** TS2

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

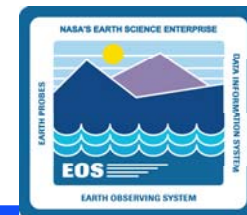
[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

**Modify Collection Group**

Data Source	Group ID (Click to manage collection)	Display Name	Description	Check Box to Modify
ECS	<a href="#">ACRM</a>	ACRM	All collections/granules from the ACRIM mission	<input type="checkbox"/>
ECS	<a href="#">AIRA</a>	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission	<input type="checkbox"/>
ECS	<a href="#">AMSA</a>	AMSA	AMSR-E collections/granules from the Aqua mission	<input type="checkbox"/>
ECS	<a href="#">ASTT</a>	ASTT	ASTER collections/granules from the Terra mission	<input type="checkbox"/>
ECS	<a href="#">BRWS</a>	BRWS	Browse collections/granules	<input type="checkbox"/>
ECS	<a href="#">C&amp;DD</a>	C&DD	dddd	<input type="checkbox"/>
ECS	<a href="#">DASP</a>	DASP	Data Assimilation System Products	<input type="checkbox"/>
ECS	<a href="#">LSR7</a>	LSR7	All collections/granules from the Landsat 7 mission	<input type="checkbox"/>
ECS	<a href="#">MOAA</a>	MOAA	MODIS Atmosphere collections/granules from Aqua mission	<input type="checkbox"/>
ECS	<a href="#">MOAT</a>	MOAT	MODIS Atmosphere collections/granules from the Terra mission	<input type="checkbox"/>
ECS	<a href="#">MOGA</a>	MOGA	MODIS Radiometric and Geolocation collections/granules for Aqua	<input type="checkbox"/>
ECS	<a href="#">MOGT</a>	MOGT	MODIS Radiometric and Geolocation collections/granules for Terra	<input type="checkbox"/>
ECS	<a href="#">MOLA</a>	MOLA	MODIS Land collections/granules from the Aqua mission	<input type="checkbox"/>

Document: Done (3.782 secs)

# DPM GUI: Detailed List of Data Pool Themes Page



Data Pool Maintenance GUI in mode TS2 – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmThemesFrame.pl Search Print

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Data Pool Maintenance GUI in mode...

## Data Pool Maintenance

TS2

[Home Page](#)
[Batch Summary](#)
[List Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)

[Compression Algorithms](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Help](#)

Web Visible ☐ ALL ☒ Insert Enabled ☐ ALL ☒ Beginning Letters

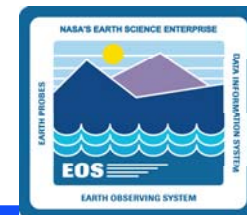
Detailed list of Data Pool Themes

Theme Name Description	Web Visible	Insert Enabled	Click on Box to Delete
Mike Test Theme please leave it alone This is a test theme Please leave alone	Yes	Yes	<input type="checkbox"/>
MISR Browse Fake data for DP_S4_02	Yes	Yes	<input type="checkbox"/>
NCR36931verification NCR 36931 Verification	Yes	Yes	<input type="checkbox"/>
syn4_wds402 data used for WD_S4_02 testing for Synergy IV	Yes	Yes	<input type="checkbox"/>
theme_nones test of non-ecs insert	Yes	Yes	<input type="checkbox"/>
<a href="#">Add New Theme</a> <a href="#">Modify Theme</a>			<input type="button" value="Apply Change"/>

Document: Done (4.562 secs)



# DPM GUI: Add New Theme Page



Data Pool Maintenance GUI in mode TS2 – Netscape


File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop  Search Print


Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Data Pool Maintenance GUI in mode...

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## Data Pool Maintenance

TS2 

[Home Page](#)[Batch Summary](#)[List Insert Queue](#)[Collection Groups](#)[Themes](#)[Data Pool File Systems](#)

[Compression Algorithms](#)[Cloud Cover](#)[Configuration Parameters](#)[Help](#)

Web Visible ☐ ALL ☒ Insert Enabled ☐ ALL ☒ Beginning Letters

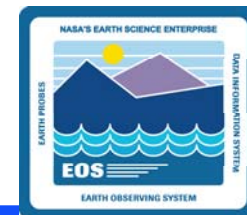
---

### Add New Theme

Theme Name	Description	Web Visible	Insert Enabled
Theme <input type="text"/>	Description <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">Return to theme list</a>			<input type="button" value="Apply Change"/>

Document: Done (1.619 secs)

# DPM GUI: Modify Theme Page



Data Pool Maintenance GUI in mode TS2 – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmThemesFrame.pl Search Print

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Data Pool Maintenance GUI in mode...

**Data Pool Maintenance** TS2

Home Page Batch Summary List Insert Queue Collection Groups Themes Data Pool File Systems  
 Compression Algorithms Cloud Cover Configuration Parameters Help

Web Visible ☐ ALL ☒ Insert Enabled ☐ ALL ☒ Beginning Letters  Apply Filter

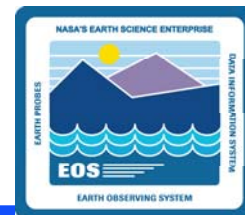
**Modify Theme**

Theme Name	Description	Web Visible	Insert Enabled	Click on Box to Modify
Mike Test Theme please leave it alone	This is a test theme Please leave alone	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MISR Browse	Fake data for DP_S4_02	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NCR36931verification	NCR 36931 Verification	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
syn4_wds402	data used for WD_S4_02 testing for Synergy IV	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
theme_nones	test of non-ecs insert	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[Return to previous page](#) [Return to Main Theme Page](#)

Document: Done (1.193 secs)

# DPM GUI: Help Page



**Data Pool Maintenance GUI – Netscape**

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmHelp.pl Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis- proto.gsfc.nas... Members WebMail Connections BizJournal

Data Pool Maintenance GUI

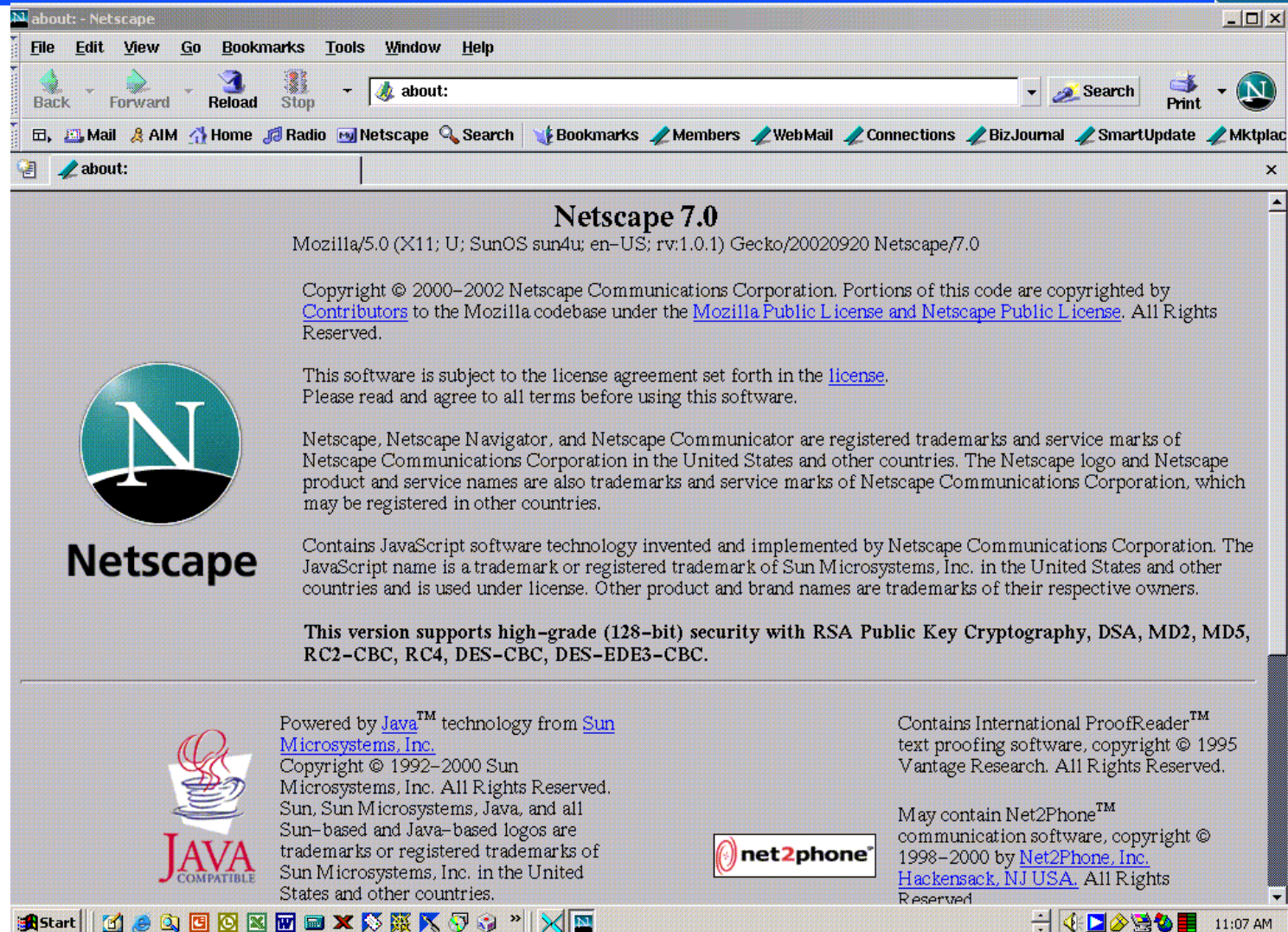
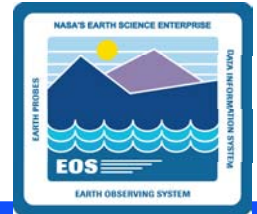
## Data Pool Maintenance

[Return to previous page](#)

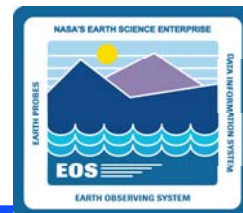
1. The Data Pool Maintenance (DPM) GUI provides an operator interface to monitor the current status of Data Pool Inserts and to maintain specific Data Pool configuration parameters. Specifically, the DPM GUI allows the full capability operator to:
  - Suspend and Resume Data Pool Inserts
  - Configure parameters used by Data Pool Action Driver (DPAD) and Data Pool Insert Utility (DPIU)
  - Monitor the active insert processes
  - Monitor the Data Pool Insert Queue
  - Monitor Batch inserts
  - Manage existing Data Pool Collection Groups
  - Manage existing Data Pool Themes
  - Add new ECS Data Pool Collection Groups
  - Add new NON-ECS Data Pool Collection Groups
  - Add new Data Pool Themes
  - Delete Data Pool Themes
  - Manage Cloud Cover information in data pool
  - Manage data pool file system(s)
  - Manage compression algorithm configuration
  - End web server session ( this can be done by read-only and full capability operators
2. The **DPM Home Page** gives the operator an overview of current DataPool insert operations and file system availability. The home page screen is refreshed automatically, or can be immediately refreshed by clicking on the Refresh Home Page link. Tab buttons at the top of the home page may be used to navigate to the Batch Summary, List Insert Queue, Collection Groups, Themes, Data Pool File Systems, Compression Algorithms, Cloud Cover, Configurations Parameter, and Help pages. The End Session tab may be used to end the GUI session. The home page is divided into four sections: 1) home page tailoring parameters; 2) a summary of space usage and availability for the Data Pool file system(s); 3) a summary of active insert process statistics; and 4) a list of active insert processes. Two tailoring parameters are shown: the screen refresh rate and the number of active insert processes shown at one time in the List of Active Insert Processes table described below. The operator may adjust the values of these parameters by entering a new value in the input box and then clicking on the Apply button to initiate the changes. The Summary of Data Pool File System table shows the values of the free space status flag, the file system availability status flag, and the minimum freed space in MB for each configured Data Pool file system. The Summary of Active Processes table shows the configured values for maximum number of total insert processes, maximum number of insert processes from AMASS cache, and maximum number of insert processes from AMASS tape. This table also shows the actual numbers of insert processes which are active in each of these categories. The List of Active Insert Processes table shows detailed information about each active insert process. The number of rows displayed at a time is controlled by the Active Insert Processes tailoring parameter.
3. The **Batch Summary** tab gives a operator the status summary of batch inserts per batch label. This screen is refreshed automatically. The operator is shown the current refresh rate which is configurable.
4. The **List Insert Queue** tab allows the operator to monitor the DataPool Inserts that are in the queue and are not yet being processed. The operator can cancel one or more queued Inserts by clicking on the checkbox adjacent to the queued insert process. After selecting all Inserts to be cancelled, click on the **Apply Change** button. The Data Pool Inserts will be marked as "CANCELED". The DPAD driver will clean up all cancelled inserts at a configured interval.
5. The **Collection Groups** tab allows all operator to view information about all collection groups in the Data Pool database. Full capability operators may perform the following operations:
  - The operator can add a new ECS or NON-ECS collection group by clicking on the **Add Collection Group** link. This link will take the operator to the **Add Collection Group** screen. This screen displays three required input fields and one optional: 1) Data Source : a toggle button which has ECS and NON-ECS for values; 2) Group ID: a text area to enter the name of a collection groups. This input will be checked for duplication against all existing collection group names. This group name must be 12 characters or less.

Document: Done (2.121 secs)


# Netscape Web Browser



# DPM GUI: Security Login Prompt



**Prompt**

 Enter username and password for "DPL Realm" at p2dps01.pvc.ecs.nasa.gov:22101

User Name:

Password:

☐ Use Password Manager to remember these values.

OK Cancel

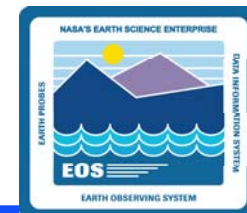
# Number of Drivers to Run



- **Recommended initial configuration**
  - 3 event drivers
  - 3 action drivers
  - 1 recovery driver
  - 1 deletion driver
- **EcNbDriverStart <MODE>  $d_e d_a d_r d_d$**
- **Increase throughput by doubling number of event and action drivers (i.e., 6 each)**
- ***isql* query to identify a condition in which action processing lags behind event processing**
  - **select max(actionDateTime from EcNbActionQueueLog where actionStatus = 'Acquire' or actionStatus = 'ActionNotification'**
  - **if delay is an hour, try increasing number of action drivers to one and one-half times the number of event drivers (e.g., 6 event drivers and 9 action drivers)**

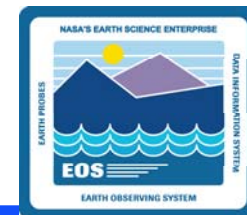


# DPM GUI User Messages



Message Text	Impact	Cause and Corrective Action
DB Error: You entered a duplicate collection group name that exists in the database. Please try again	Unable to add a new group id	Duplicate group name is entered.  Check the list of group ids and enter a group name consisting of four letters, which is not on the list.
INPUT Error: You entered an invalid group name. Please see help page for more information. Please see section Add Collection Group	Unable to add a new group	Lower case letter is entered.  Group id should be all Upper case letters.
INPUT Error: You entered an invalid name. Please see log for more details. Consult help tab and see section for NON-ECS add Collection Screen	Unable to add a new non-ECS collection	Special characters/small letters are entered.  Non-ECS collection name should be in capital letters and without any special characters.
INPUT Error: You entered an invalid theme name. Please see help page for more information. Please see section: Add New Theme	Unable to add a new theme	Special characters/small letters are entered.  Theme names should be in capital letters and without any special characters.
DB Error: Theme can not be null or empty	Unable to add a theme	A null or empty string is entered.  Theme name should contain capital, small letters. Space is also allowed but no special characters.

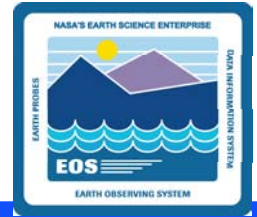
# DPM GUI User Messages (Cont.)



Message Text	Impact	Cause and Corrective Action
DB Error: You entered either an existing theme name or a collection or a group name or an ESDT name. Check the log at /usr/ecs/<mode>/CUSTOM /log/EcDIDpmDataPoolGui. log for more details	Unable to add a theme	A name is entered, which is a duplicate name for a group, collection or an ESDT name.
DB Error: This collection is allowed for insertion therefore Spatial Search Type cannot be modified for this collection	Unable to modify Spatial Search type for a collection	Collection is not allowed for insertion.  First make the collection allowed for insertion and then try to modify search type
DB Error: Error adding this collection. Collection entry <collection name> <version> already exist	Unable to add a collection.	Duplicate collection name entered.  Verify the list of collection and then enter a name, which is unique.
DB Error: Internal error occurred	A db transaction interrupted.	Database connection is lost for network error.  No suggestion.
DB Error: delete failed because there are granules associated with this theme	Unable to delete a theme.	There are granules associated with this theme.  Disassociate granules from this theme and then delete it.

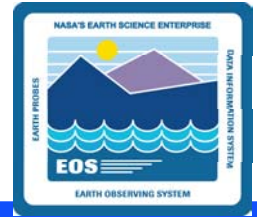


# Using the Spatial Subscription Server GUI



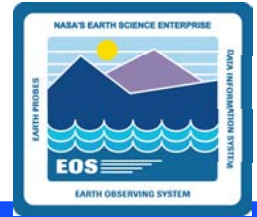
- **The Spatial Subscription Server (NSBRV) GUI provides a convenient means of modifying the period of retention in a Data Pool insert subscription and designating a subscription for secure distribution**
  - **This can be done by User Services and/or science personnel, but the archive support personnel should also be familiar with the GUI and its use**
  - **Other tasks done with the Spatial Subscription Server GUI may also be of use to archive personnel**
    - » **For example, viewing the acquire and notification actions currently being processed by the Spatial Subscription Server and viewing statistics on the processing of events and actions by the Spatial Subscription Server**

# Using the Spatial Subscription Server GUI (Cont.)



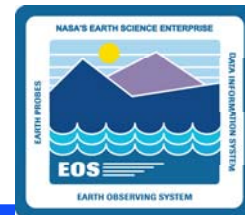
- **The Spatial Subscription Server GUI permits an operator to perform the following kinds of activities:**
  - **View subscribable events**
  - **Review existing subscriptions in the NSBRV database**
  - **Add a subscription specifying Data Pool qualification and retention criteria, thus adding a subscription for Data Pool insert to the database**
  - **Create a standard subscription for notification and/or distribution of ECS data products**
  - **Designate a subscription for secure distribution**

# Using the Spatial Subscription Server GUI (Cont.)



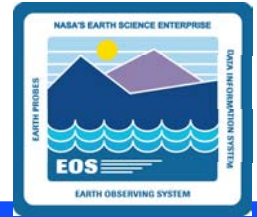
- **The Spatial Subscription Server GUI permits an operator to perform the following kinds of activities (Cont.):**
  - **Extend the period of retention in a Data Pool insert subscription for new granules from a particular area**
  - **View the acquire and notification actions currently being processed by the Spatial Subscription Server**
  - **View statistics on the processing of events and actions by the Spatial Subscription Server**

# Using the Spatial Subscription Server GUI (Cont.)



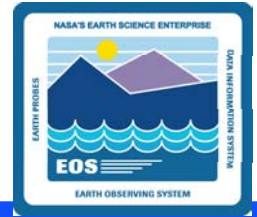
- **New operator GUI security standards require the following two levels of permissions for the Spatial Subscription Server GUI:**
  - Full Capability
  - Limited Capability
- **Full-capability operators have the ability to configure parameters and perform all other actions that can be accomplished with the Spatial Subscription Server GUI**
- **Limited-capability operators are able to view a lot of information**
  - However, on the limited-capability GUI some buttons and links have been disabled so it is not possible to perform certain actions or access certain pages

# Using the Spatial Subscription Server GUI (Cont.)



- **This lesson provides instruction in the full-capability version of the Spatial Subscription Server GUI. In general, both full-capability operators and limited-capability operators can view the following items:**
  - **Subscribable events**
  - **Subscriptions**
  - **Bundling orders**
  - **Action queue**
  - **Statistics relating to Spatial Subscription Server performance**

# Using the Spatial Subscription Server GUI (Cont.)



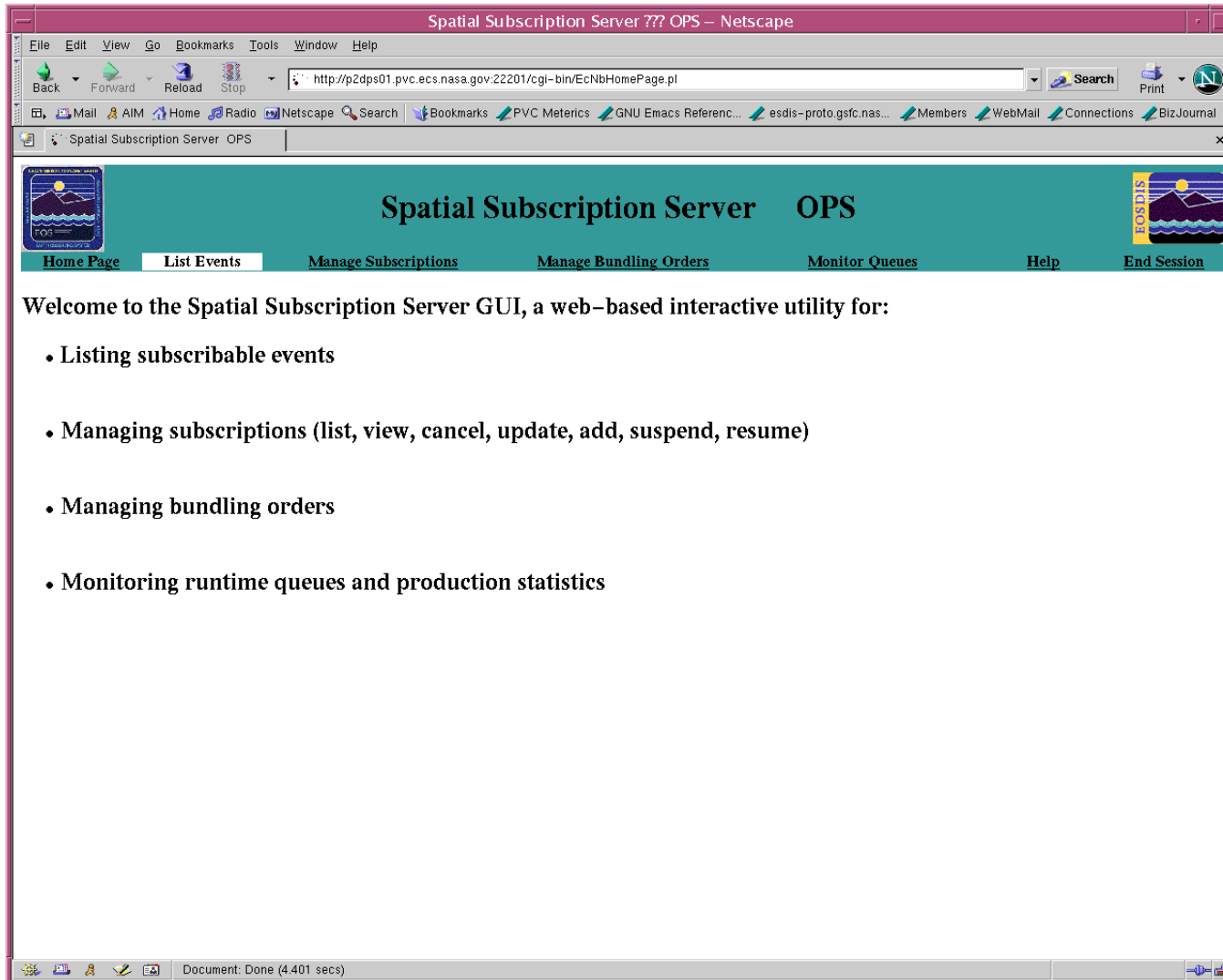
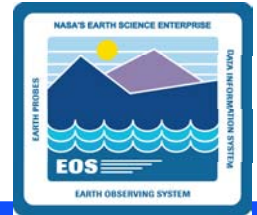
- **Full-capability operators only may perform the actions:**
  - Add, update, or delete (cancel) a subscription
  - Configure defaults for a bundling order
  - Add, update, or cancel a bundling order
- **The Spatial Subscription Server GUI is a web application**

# Using the Spatial Subscription Server GUI (Cont.)



- **The Spatial Subscription Server GUI Home Page provides four links for access to pages supporting various tasks:**
  - **List Events:** access to pages for listing subscribable events
  - **Manage Subscriptions:** access to pages for managing subscriptions
  - **Manage Bundling Orders:** access to pages for managing bundling orders
  - **Monitor Queues:** access to pages for monitoring the action queue and listing statistics
- **There is also a Help link providing descriptions of the NSBRV functions to provide the operator with assistance in navigating through the GUI**

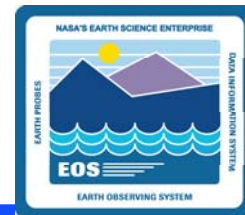
# Spatial Subscription Server GUI Home Page





# Spatial Subscription Server GUI

## List Events Page



Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbEventFrame.pl Search Print

Spatial Subscription Server OPS

**Spatial Subscription Server OPS**

Home Page **List Events** Manage Subscriptions Manage Bundling Orders Monitor Queues Help

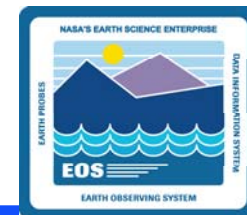
Collection ALL Version ALL Event Type ALL Filter

Collection	Version	Event Type
ACR3L20M	001	DELETE
ACR3L20M	001	INSERT
ACR3L20M	001	UPDATEMETADATA
ACR3L2SC	001	DELETE
ACR3L2SC	001	INSERT
ACR3L2SC	001	UPDATEMETADATA
AE_L2A	001	DELETE
AE_L2A	001	INSERT
AE_L2A	001	UPDATEMETADATA
AIR10SCC	001	DELETE
AIR10SCC	001	INSERT
AIR10SCC	001	UPDATEMETADATA
AIR10SCC	077	DELETE
AIR10SCC	077	INSERT
AIR10SCC	077	UPDATEMETADATA
AIR10SCI	001	DELETE

Document: Done (42.497 secs)

# Spatial Subscription Server GUI

## Manage Subscriptions Page



Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbSubFrame.pl Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Spatial Subscription Server OPS

**Spatial Subscription Server OPS**

Home Page List Events **Manage Subscriptions** Add Subscriptions List Themes Monitor Queues Help

User windhoek\_anc Collection ALL Status ALL DataPool ALL Filter

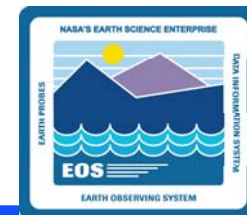
Change Collection Display To: TextEntry

Subscription Id	User	Collection	Version	Event Type	Status	DataPool	Start Date	Expiration Date	Time Last Updated
11	NOAA/SOAP	GDAS_0ZF	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 7 2004 12:00PM	Feb 16 2004 4:28PM
12	NOAA/SOAP	OZONEEP	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 8 2004 12:00PM	Feb 16 2004 4:29PM
14	NOAA/SOAP	SEA_ICE	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 8 2004 12:00PM	Feb 16 2004 4:32PM
20	cmops	MOD04_L2	003	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Nov 9 2008 12:00PM	Feb 16 2004 4:43PM
52	userops	MOD13A1	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 14 2004 12:00PM	Feb 16 2004 4:45PM
53	userops	MOD09A1	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 14 2004 12:00PM	Feb 16 2004 4:46PM
54	userops	MOD43B1	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 14 2004 12:00PM	Feb 16 2004 4:48PM
55	cmops	MOD11A1	001	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Dec 31 2004 12:00PM	Feb 16 2004 4:49PM
56	cmops	MOD11B1	001	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Dec 31 2004 12:00PM	Feb 16 2004 4:51PM
58	cmops	MOD13A1	001	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Dec 31 2004 12:00PM	Feb 16 2004 4:53PM

Document: Done (17.412 secs)

# Spatial Subscription Server GUI

## Add Subscriptions Page



Spatial Subscription Server 777 OPS - Netscape

http://p3dnp01.pvc.ecs.nasa.gov:2201/cgi-bin/EchAddSubscription1B.pl

**Spatial Subscription Server OPS**

Home Page List Events Manage Subscriptions **Add Subscriptions** List Themes Monitor Queries Help

User Id: cmshared Status: Active Start Date 02/21/2004 Expiration Date 2/21/2005

Short Name / Version / Event Type: MOD021KM 003 INSERT

### Subscription Qualifiers

Logical Basis  
[AND]

Integer / Float / Date

Attribute Name/Type	Min Value	Max Value

String

Attribute Name/Type	Value

Spatial

Enter coordinates of intersecting LLBOX

North Latitude

West Longitude East Longitude

South Latitude

### Action Information

To bundle the subscription, check here and choose from the list below: ☐ Bundling Order

Bundling Order Selection
0600076765

(After choosing a bundling order, skip to the bottom of the page.)

Otherwise choose one or more actions: ☐ Acquire ☐ E-Mail Notification ☐ Data Pool

Enter information below for the actions selected (not applicable for bundled subscriptions)

### Acquire Information

User Profile [cmshared]

User String

Email Address [cmshared@p3dnp01.pvc.ecs.nasa.gov]

Media Format FILEFORMAT

Media Type [FtpPush]

Priority [NORMAL]

Notify Type MAIL

Information for FtpPush or Secure Copy Distribution (scp) Only

User

Password

Enter password again for verification

Host

Directory

### E-Mail Notification Information

Action Address [cmshared@p3dnp01.pvc.ecs.nasa.gov]

User String

Metadata

### Data Pool Information

Retention Period [ ] (in days)

Retention Priority [ ] (valid range 1 thru 255)

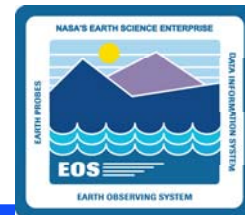
Science Granules and/or Metadata

Check here to add theme: ☐ Enter first few chars of name: [ ]

Add Subscription

# Spatial Subscription Server GUI

## View Subscriptions Page



Spatial Subscription Server OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbSubscriptionChoose.pl Search Print

Spatial Subscription Server OPS

### Spatial Subscription Server OPS

[Home Page](#) [List Events](#) [Manage Subscriptions](#) [List Themes](#) [Monitor Queues](#) [Help](#)

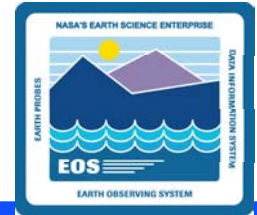
User=lillianw  
Status=Active  
Start Date=May 14 2003 12:00PM  
Expiration Date=May 14 2004 12:00PM  
Short Name=MOD28QC  
Version= 001  
Event Type=INSERT

-- Acquire Data associated with Subscription --  
User Profile=lillianw  
User String=sun consolidation, eborder firewall test  
Priority=XPRESS  
Notify Type=MAIL  
Email Address=lillianw@eos.east.hiit.com  
Media Format=FILEFORMAT  
Media Type=FtpPush  
FTP Information  
User=userops  
Password=\*\*\*\*\*  
Host=t1spg03.vatc.ecs.nasa.gov  
Directory=/data2/TS1/PUSH\_DESTINATION/D2

[View another subscription](#) [Return to Home Page](#)

Document: Done (4.015 secs)

# Spatial Subscription Server GUI Update Subscriptions Page



Update Subscription - Netscape

http://p2dp01.pvc.acs.nasa.gov:22251/cgi-bin/ECHO/SubscriptionChoose.pl

**Spatial Subscription Server OPS**

Home Page | List Events | **Manage Subscriptions** | List Themes | Monitor Queues | Help

User ID: jsharad | Status: Active

Start Date (MM/DD/YYYY HH:MM): 02/12/2004 12:00

Expiration Date (MM/DD/YYYY HH:MM): 02/02/2005 12:00

Subscribe to Event

Short Name / Version / Event Type: MOD021KM 003 INSERT

**Subscription Qualifiers**

**Logical Basis**

AND

**Integer / Float / Date**

Attribute Name/Type	Min Value	Max Value

**String**

Attribute Name/Type	Value

**Spatial**

Enter coordinates of intersecting LLBOX

North Latitude

West Longitude | East Longitude

South Latitude

**Action Information**

To bundle the subscription, check here and choose from the list below: ☐ Bundling Order

**Bundling Order Selection**

0400001054

(After choosing a bundling order, skip to the bottom of the page.)

Otherwise choose one or more actions ☐ Acquire ☐ E-Mail Notification ☐ Data Pool

Enter information below for the actions selected (not applicable for bundled subscriptions)

**Acquire Information**

User Profile: ALL

User String:

Email Address:

Media Format: FILEFORMAT

Media Type: FilePush

Priority: HIGH

Notify Type: MAIL

Information for FilePush and Secure Copy Distribution (scp) Only

User:

Password:

Enter password again for verification:

Host:

Directory:

**E-Mail Notification Information**

Action Address:

User String:

Metadata:

**Data Pool Information**

Retention Period: (in days)

Retention Priority: (valid range 1 thru 255)

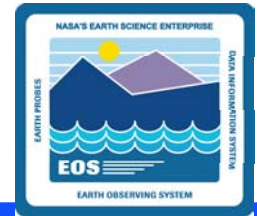
Science Granules and/or Metadata:

Check here to add theme: ☐ Enter first few chars of name:

Update Subscription

# Spatial Subscription Server GUI

## List Themes Request Page




Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help


Back Forward Reload Stop  Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Spatial Subscription Server OPS



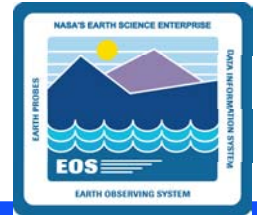
### Spatial Subscription Server OPS



[Home Page](#) [List Events](#) [Manage Subscriptions](#) [Manage Bundling Orders](#) [Monitor Queues](#) [Help](#)

**Enter first few characters of theme name (or leave blank to view all):**

# Spatial Subscription Server GUI Theme List Page



Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbListThemes2.pl Search Print

Spatial Subscription Server OPS

**Spatial Subscription Server OPS**

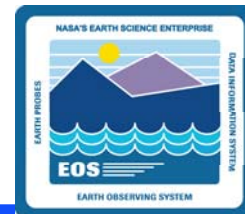
[Home Page](#) [List Events](#) [Manage Subscriptions](#) [Manage Bundling Orders](#) [Monitor Queues](#) [Help](#)

Theme Name	Choose Theme Action
OPS FIRST THEME	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
OPS SECOND THEME	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
Third Theme	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
EDC Theme 1	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
EDC Theme 2	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
Ozone Theme	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
MOD43 Theme	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
New Non Ecs Theme	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
Theme from a Summer Place	<input type="checkbox"/> List Subscriptions <a href="#">Apply</a>
<a href="#">Continue</a>	

Document: Done (1.993 secs)

# Spatial Subscription Server GUI

## List Subscriptions for Theme Page





Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop  Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Spatial Subscription Server OPS

 **Spatial Subscription Server OPS** 

[Home Page](#) [List Events](#) [Manage Subscriptions](#) [Manage Bundling Orders](#) [Monitor Queues](#) [Help](#)

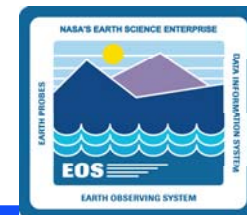
**Subscriptions for theme OPS FIRST THEME**

ID	User	Status	Expiration Date	ESDT ShortName/Version/EventType	Choose Subscription Action
618	cmops	Active	Apr 9 2004 12:00AM	DFLAPCHM 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
619	cmops	Active	Apr 9 2004 12:00AM	DFLAXCHM 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
620	cmops	Active	Apr 9 2004 12:00AM	MODOCCL2 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
621	cmops	Active	Apr 9 2004 12:00PM	MODOCCL2A 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
1104	cmshared	Canceled	Feb 21 2004 2:35PM	MOD021KM 3 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
					<input type="button" value="Suspend All"/> <input type="button" value="Resume All"/> <input type="button" value="Cancel All"/> <input type="button" value="Apply"/>

Document: Done (2.004 secs)



# Spatial Subscription Server GUI Manage Bundling Orders Page



Spatial Subscription Server ??? OPS – Netscape

http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbManBundOrder.pl?filterid=ALL&filtermediatype=ALL

**Spatial Subscription Server OPS**

Home Page List Events Manage Subscriptions **Manage Bundling Orders** Monitor Queues Help

Bundling Order List [Add Bundling Order](#) [Configure Defaults](#)

User: rginocch MediaType: ALL Status: in(filtCANCELLED) Filter

Bundling Order	User	Creation Date	Expiration Date	Media Type	Status	Choose Bundling
0400068737	rginocch	Aug 12 2003 6:28PM	Aug 11 2004 12:00AM	FtpPush	ACTIVE	View Update Cancel
0400078765	cmshared	Oct 14 2003 5:59PM	Oct 13 2004 12:00AM	CDROM	ACTIVE	View Update Cancel List Subs Apply
0400079209	cmshared	Oct 22 2003 11:17AM	Oct 21 2004 12:00PM	scp	CANCELLED	View Update Cancel List Subs Apply
0400079392	cmshared	Oct 24 2003 2:48PM	Oct 23 2004 12:00PM	scp	CANCELLED	View Update Cancel List Subs Apply
0400079393	cmshared	Oct 24 2003 2:49PM	Oct 23 2004 12:00PM	scp	CANCELLED	View Update Cancel List Subs Apply

[Continue](#)

**Bundling Order 0400079209**

User Name: cmshared  
 Creation Date: Oct 22 2003 11:17AM  
 Expiration Date: Oct 21 2004 12:00PM  
 Media Type: scp  
 Current Status: CANCELLED  
 User String: Test Criterion 19  
 Email Address: awilson@p01n01u.ecs.nasa.gov  
 Distribution Priority: HIGH

**scp Distribution Information:**

Users:  
 Hosts:  
 Directory:

**Completion Criteria:**

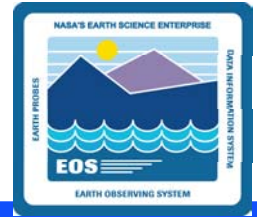
Minimum Bundle Size: 5  
 Minimum Granule Count: 4  
 Maximum Bundle Age: 1

[Return to bundling order list](#)

Document: Done (2.694 secs)

# Spatial Subscription Server GUI

## Add Bundling Order Page



Spatial Subscription Server ??? OPS – Netscape



File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbAddBundle.pl Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Spatial Subscription Server OPS

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 **Spatial Subscription Server OPS** 

[Home Page](#) [List Events](#) [Manage Subscriptions](#) [Manage Bundling Orders](#) [Monitor Queues](#) [Help](#)

[Bundling Order List](#) | [Add Bundling Order](#) | [Configure Defaults](#)

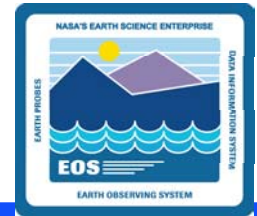
### Add Bundling Order

UserID	<input type="text"/>
Expiration Date	<input type="text" value="02/20/2005"/> (mm/dd/yyyy)
Media Type	<input type="text" value="CDROM"/>

Document: Done (3.278 secs)

# Spatial Subscription Server GUI

## Add Bundling Order: Data Pages



### Hard Media

Netcape: Spatial Subscription Server

**Spatial Subscription Server**

Home Page | List Events | Manage Subscriptions | **Manage Bundling Orders** | Monitor Queues

#### Add Bundling Order

User ID: cmshared  
Expiration Date: 11/13/2003  
Media Type: CDROM  
Email Address: [cmshared@ciro.edu.ac]  
User String: [ ]  
Distribution Priority: Xpress

#### Shipping Information

Street1: [1000 McCormick Dr.]  
Street2: [ ]  
Street3: [ ]  
City: [Landover]  
State: [Maryland]  
Country: [United States]  
Zip Code: [20774]  
Phone number: [301-411-1111]  
FAX number: [ ]

#### Completion Criteria

Minimum Bundle Size(GB): [0.50]  
Minimum Granule Count: [10]  
Maximum Bundle Age(days): [1] \*required field

**Add Bundling Order** **reset**

### FTP Push

Netcape: Spatial Subscription Server

**Spatial Subscription Server**

Home Page | List Events | Manage Subscriptions | **Manage Bundling Orders** | Monitor Queues

#### Add Bundling Order

User ID: cmshared  
Expiration Date: 11/13/2003  
Media Type: FtpPush  
Email Address: [cmshared@ciro.edu.ac]  
User String: [ ]  
Distribution Priority: Xpress

#### FtpPush Parameters

FTP Username: [ ]  
FTP Host: [ ]  
FTP Password: [ ]  
Rftp Password: [ ]  
FTP Directory: [ ]

#### Completion Criteria

Minimum Bundle Size(GB): [0.5]  
Minimum Granule Count: [10]  
Maximum Bundle Age(days): [1] \*required field

**Add Bundling Order** **reset**

### FTP Pull

Netcape: Spatial Subscription Server

**Spatial Subscription Server**

Home Page | List Events | Manage Subscriptions | **Manage Bundling Orders** | Monitor Queues | Help

#### Add Bundling Order

User ID: cmshared  
Expiration Date: 11/13/2003  
Media Type: FtpPull  
Email Address: [cmshared@ciro.edu.ac]  
User String: [ ]  
Distribution Priority: Xpress

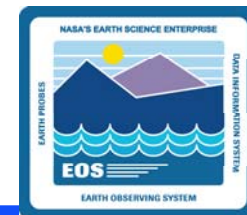
#### Completion Criteria

Minimum Bundle Size(GB): [0.5]  
Minimum Granule Count: [10]  
Maximum Bundle Age(days): [1] \*required field

**Add Bundling Order** **reset**

# Spatial Subscription Server GUI

## Add Bundling Order: Data Pages



SCP

Spatial Subscription Server ??? OPS - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2ins03.pvc.ecs.nasa.gov Search Print

Home Page List Events Manage Subscriptions Manage Bundling Orders Monitor Queues Help

### Add Bundling Order

User ID: cmshared

Expiration Date: 10/21/2004

Media Type: scp

Email Address: cmshared@p2ins02.pvc

User String:

Distribution Priority: **NORMAL**

Spatial Subscription Server ??? OPS - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2ins03.pvc.ecs.nasa.gov Search Print

Home Page List Events Manage Subscriptions Manage Bundling Orders Monitor Queues Help

### scp Parameters

Username:

Host:

Password:

Retype:

Password:

Directory:

### Completion Criteria

Minimum Bundle:

Size(GB):

Minimum Granule:

Count:

Maximum Bundle:

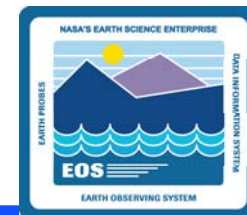
Age(days):

\* required field

Add Bundling Order reset

Document: Done (5.384 secs)

# Spatial Subscription Server GUI Update Bundling Order Page





Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop  Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Spatial Subscription Server OPS

 **Spatial Subscription Server OPS** 

[Home Page](#) [List Events](#) [Manage Subscriptions](#) [Manage Bundling Orders](#) [Monitor Queues](#) [Help](#)

## Update Bundling Order 0400079209

( Click [here](#) to go back to the Bundling Order list. )

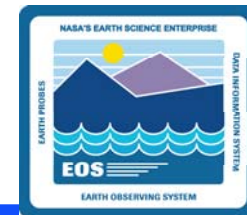
UserID

Expiration Date (MM/DD/YYYY HH:MM)

Physical Media Type

# Spatial Subscription Server GUI

## Update Bundling Order: Data Pages



### FTP Push

Spatial Subscription Server DEV05 - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://f3ins01.hitc.com:22235/cgi-bin/EcNbModBundlingOrder Search Print

Spatial Subscription Server DEV05

### Update Bundling Order 0400011767

UserID labuser  
Expiration Date 8/3/2005 12:00  
Media Type FtpPush  
Email Address labuser@eos.hitc.com  
User String festing  
Distribution Priority HIGH

FtpPush Parameters:

FTP Username labuser  
FTP Host lorigin  
FTP Password \*\*\*\*\*  
Retype Password \*\*\*\*\*  
FTP Directory /devdata1/DEV01/PushArea

Completion Criteria:

Minimum Bundle Size(GB) 1  
Minimum Granule Count 2  
Maximum Bundle Age(days) 1  
\* required field

Update Bundling Order reset

### FTP Pull

Spatial Subscription Server DEV05 - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://f3ins01.hitc.com:22235/cgi-bin/EcNbModBundlingOrder Search Print

Spatial Subscription Server DEV05

### Update Bundling Order 0400012116

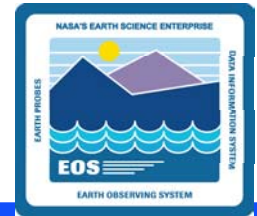
UserID labuser  
Expiration Date 12/4/2003 12:00  
Media Type FtpPull  
Email Address labuser@eos.hitc.com  
User String Test User  
Distribution Priority NORMAL

Completion Criteria:

Minimum Bundle Size(GB) 54  
Minimum Granule Count 3  
Maximum Bundle Age(days) 3  
\* required field

Update Bundling Order reset

# SSS GUI: Configure Bundling Order Completion Criteria Defaults



Spatial Subscription Server ??? OPS - Netscape

http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbConfigureBO.pl

Spatial Subscription Server OPS

Home Page List Events Manage Subscriptions **Manage Bundling Orders** Monitor Queues Help

[Bundling Order List](#) [Add Bundling Order](#) [Configure Defaults](#)

## Configure Completion Criteria Default Values

Parameter	Current Value	Change to...
Minimum Granule Count	10	
Maximum Bundle Age(days)	1	
Bundle Expiration Period(days)	365	
8MM		
Minimum Bundle Size(GB)	20	
CDROM		
Minimum Bundle Size(GB)	1	
DLT		
Minimum Bundle Size(GB)	94	
DVD		
Minimum Bundle Size(GB)	12	
FtpPull		
Minimum Bundle Size(GB)	54	
FtpPush		
Minimum Bundle Size(GB)	40	
scp		
Minimum Bundle Size(GB)	40	

Change Bundling Criteria Reset

Document: Done (2.649 secs)

Spatial Subscription Server ??? OPS - Netscape

http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbConfigureBO.pl

Spatial Subscription Server OPS

Home Page List Events Manage Subscriptions **Manage Bundling Orders** Monitor Queues Help

## Please Confirm The Following Bundling Criteria Change

Maximum Bundle Age(days): 2

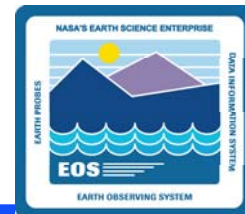
OK Cancel

Document: Done (2.381 secs)



# Spatial Subscription Server GUI

## List Action Queue Page



Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbActionFrame.pl Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Spatial Subscription Server OPS

**Spatial Subscription Server OPS**

Home Page List Events Manage Subscriptions **List Action Queue** List Statistics Help

Action Type ALL Subscription ALL Status ALL Filter

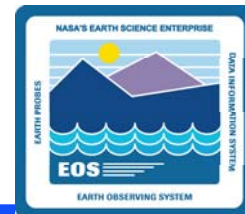
Action Type	Subscription Id	User	Collection	Version	Enqueue Time	Dequeue Time	Status
Notify	1010	cmshared	MI1B2E	001	Jan 28 2004 8:03PM	Jan 28 2004 8:03PM	DequeuedAction
Acquire	1010	cmshared	MI1B2E	001	Jan 28 2004 8:03PM	Jan 28 2004 8:03PM	DequeuedAction
Notify	1070	cmshared	AST_L1B	001	Jan 28 2004 7:23PM	Jan 28 2004 7:23PM	DequeuedAction
Acquire	1070	cmshared	AST_L1B	001	Jan 28 2004 7:23PM	Jan 28 2004 7:23PM	DequeuedAction
Acquire	943	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	933	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	750	PrivUser	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	933	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	750	PrivUser	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	933	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	750	PrivUser	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	742	PrivUser	MOD07_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction

Document: Done (15.836 secs)



# Spatial Subscription Server GUI

## List Statistics Page



Spatial Subscription Server ??? OPS – Netscape

http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbListStatistics.pl

Search Print

Spatial Subscription Server OPS

**Spatial Subscription Server OPS**

Home Page List Events Manage Subscriptions List Action Queue **List Statistics** List Failed Action Help

Subscribed Events Left to Dequeue

0

Matched Subscriptions Left to Dequeue

0

Summary of the Processing Time for Subscriptions Evaluated against Events in the Event Queue

ESDT Count	ESDT ShortName	ESDT VersionID	ESDT Event Type	MaxMetadataTime (ms)	AverageMetadataTime (ms)	MaxSubEvalTime (ms)	AverageSubEvalTime (ms)
29	AIRAASCI	77	INSERT	124733	48733	8913	4118
2	AIRABDBR	77	INSERT	39230	31761	4760	3311
18	AIRABRAD	77	INSERT	156440	74583	7196	4420
40	AIRBAQAP	77	INSERT	157463	73065	7750	3945
2	AST_L1B	1	INSERT	4643	4643	3783	3783
2	MOD01	3	INSERT	970	970	5903	5903
45	MOD04_L2	77	INSERT	24403	8373	2960	2347

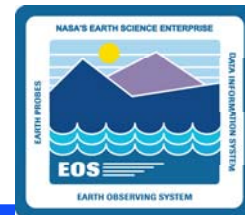
Summary of the Processing Time for E-Mail Notification Actions in Action Queue

Notification Count	MaxNotifyTime (ms)	AverageNotifyTime (ms)

Document: Done (2.381 secs)

# Spatial Subscription Server GUI

## List Failed Action Page



Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbListFailedAction.pl Search Print

Spatial Subscription Server OPS

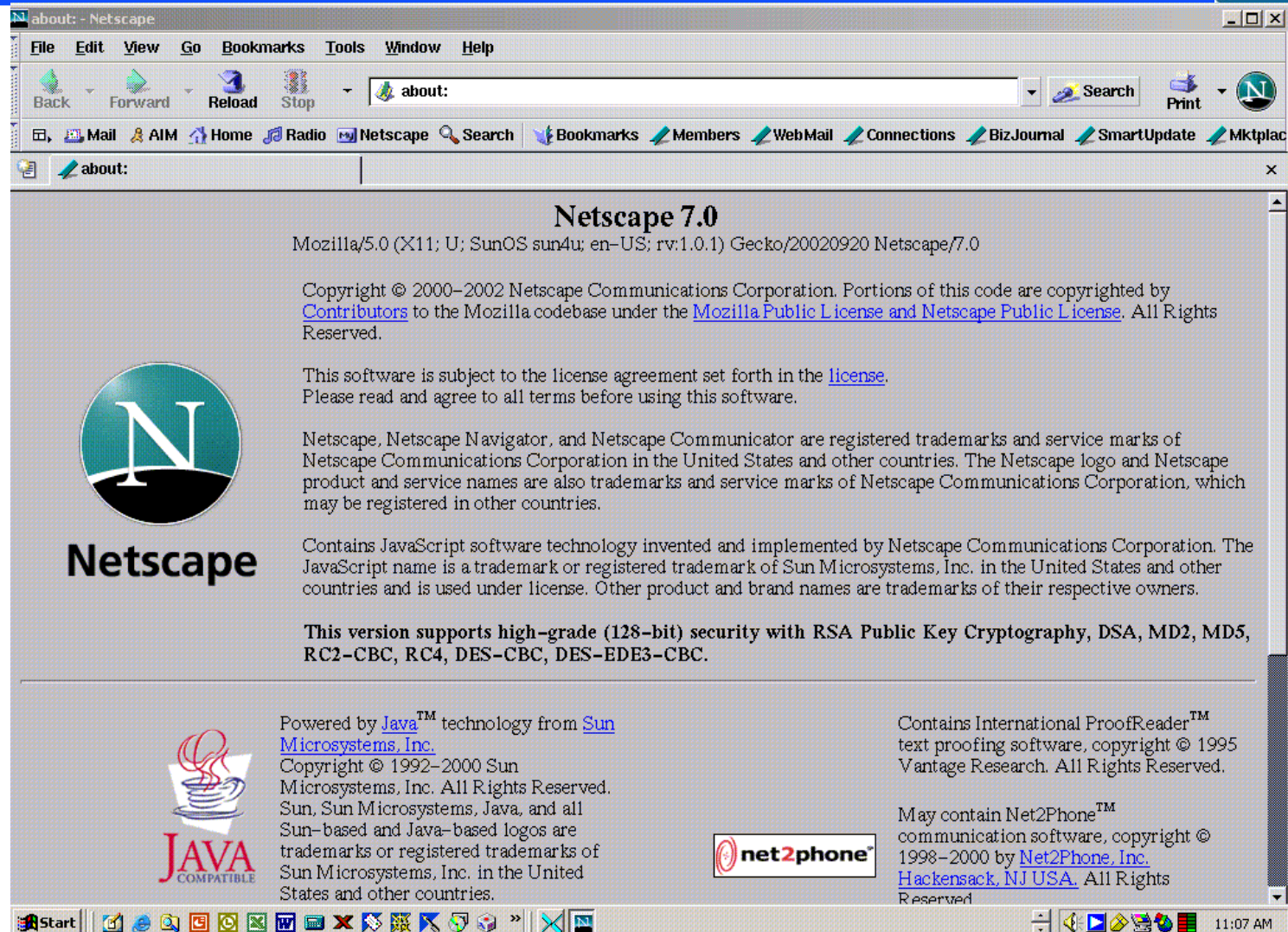
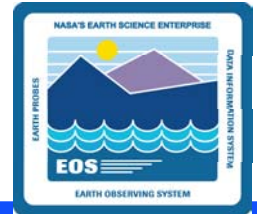
**Spatial Subscription Server OPS**

Home Page List Events Manage Subscriptions List Action Queue List Statistics List Failed Action Help

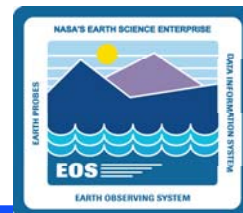
Priority	ActionId	ActionQueueId	EventId	SubscriptionId	granUR	Remove Action
1	971510	972374	872010	750	UR:10:DsShESDTUR:UR:15:DsShSciServerUR:13:[PVC:DSSDSRV]:26:SC:MOD35_L2.077:2014418185	Remove Action
1	971472	972250	871981	750	UR:10:DsShESDTUR:UR:15:DsShSciServerUR:13:[PVC:DSSDSRV]:26:SC:MOD35_L2.077:2014418142	Remove Action
1	971637	972540	872077	743	UR:10:DsShESDTUR:UR:15:DsShSciServerUR:13:[PVC:DSSDSRV]:23:SC:MOD01.077:2014418302	Remove Action

Document: Done (1.153 secs)


# Netscape Web Browser



# Security Login Prompt



**Prompt**

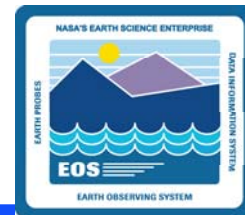
 Enter username and password for "SSS Realm" at p2dps01.pvc.ecs.nasa.gov:22201

User Name:

Password:

☐ Use Password Manager to remember these values.

# Data Pool Scripts



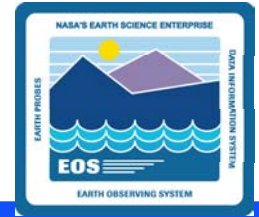
- **Update Granule Utility**
  - Updates granule retention period
  - Updates retention priority (optional)
- **Data Pool Cleanup Utility**
  - Removes expired granules from the Data Pool disks and inventory
- **Data Pool Access Statistics Accumulation Utility**
  - Derives statistics from event logs produced by the Data Pool FTP server and the Data Pool Web Access application
  - Statistics are written to a data base that can be used to produce tabular reports for loading/manipulation by a spreadsheet application program
- **Batch Insert Utility**
  - Allows insert of ECS or non-ECS granules into Data Pool

# Update Granule Utility

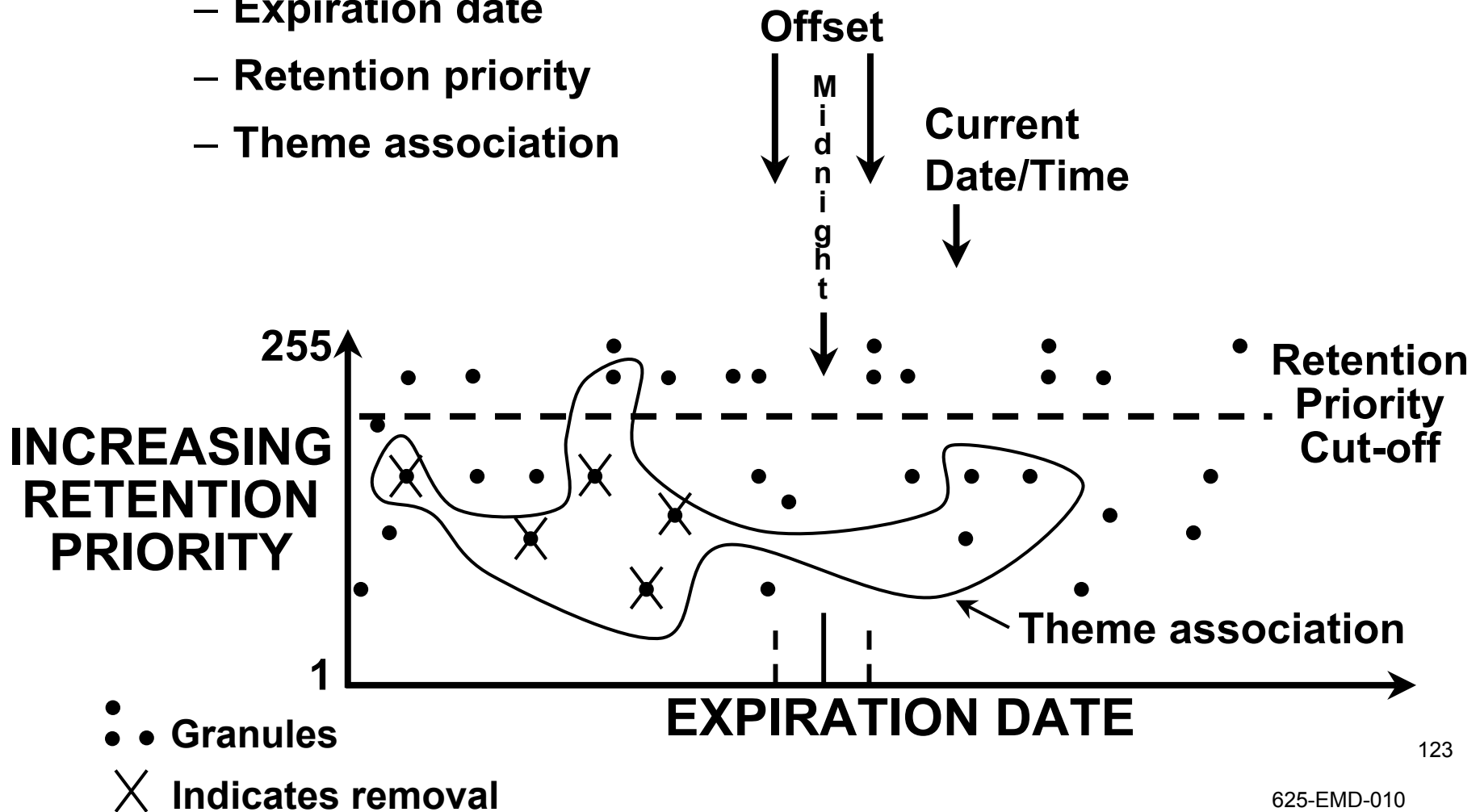


- **Extend retention of data already in Data Pool**
- **Options**
  - **-noprompt:** Suppress prompts and detailed information
  - **-theme:** Specifies a valid theme name (i.e., a character string that matches an existing theme name in the Data Pool inventory)
- **Run for a single granule with command-line input**
  - **-grnid** input parameter specifies granule information
- **Run for multiple granules listed in input file**
  - **-file** input parameter specifies the file use to provide granule data to the utility
- **Run as background process, suppressing all warnings, error messages, prompts**
- **Connects to data base and uses Sybase stored procedures**

# Data Pool Cleanup Utility



- Removal of granules that qualify for deletion
  - Expiration date
  - Retention priority
  - Theme association





# Data Pool Cleanup Utility (Cont.)



- **Cleanup Utility acts on non-ECS data in the same way as on ECS data**
- **Cleanup Utility can remove granule cross references associated with a given theme, and also the granules if specified**
  - **-themexref specifies a theme for which all cross references are to be removed from the Data Pool**
  - **-theme specifies a theme for which associated granules are to be removed (a granule is not removed if it is associated with other themes)**

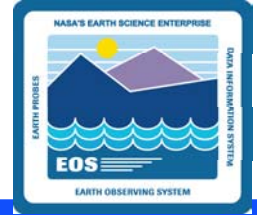


# Data Pool Cleanup Utility (Cont.)



- **Cleanup Utility reports deletion candidates to ECHO**
  - **-echomode parameter specifies the method by which deletion candidates are reported to ECHO**
  - **-echomode takes one of three values**
    - » **predelete - Cleanup Utility builds the list of items to clean up from the Data Pool and reports them to ECHO through the EcBmBulkURL utility; no data is actually cleaned up from the disks or database inventory**
    - » **delete - Cleanup Utility deletes all of the data that was last found during a run with the predelete parameter; EcBmBulkURL utility is not invoked because this run performs the actual cleanup of the database inventory and disks of what was previously reported to ECHO**
    - » **deleteall - Cleanup Utility builds its list of items to clean up, actually cleans them up, and notifies ECHO via the EcBmBulkURL utility**

# Data Pool Cleanup Utility (Cont.)



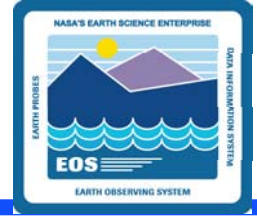
- **Normal sequence for cleanup is to run the Cleanup Utility twice**
  - Specify predelete for the first run and delete for the second run
  - If a predelete run is performed, the subsequent run must specify delete in order to perform the actual deletions
    - » Cleanup Utility enforces the requirement to avoid operator error
- **Cleanup utility permits “validation”**
  - Cleans up “phantoms” (inventory entries without Data Pool data) and “orphans” (Data Pool data without inventory entries)
  - Operator may specify logging discrepancies only, without removals

# Data Pool Cleanup Utility (Cont.)



- **Three types of runs can be performed with the Cleanup Utility:**
  - Cleanup only
  - Validation only
  - Cleanup followed by validation
- **In normal operations, the Cleanup Utility is run once a day as a cron job as a "cleanup only" run executing in echo mode or predelete**
- **On a subsequent run within the same 24-hour period, the cleanup utility is run in delete mode to perform the actual cleanup processing that was reported to ECHO in the predelete mode**

# Data Pool Access Statistics Utility



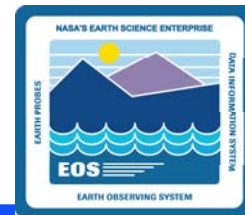
- **Processes logs of web access and FTP access and stores results in tables in the Data Pool database**
- **Two versions, each with configuration file**
  - **EcDIRollupWebLogs.pl (EcDIRollupWebLogs.CFG)**  
**processes web access logs**
  - **EcDIRollupFtpLogs.pl (EcDIRollupFtpLogs.CFG)**  
**processes SYSLOG for FTP entries**
- **Captured data are written to a flat file and exported to Sybase**
- **Associated shell scripts**
  - **DIDbArchiveAccessStat**
  - **DIDbDeleteAccessStat**
  - **DIDbRestoreAccessStat**

# Data Pool Batch Insert Utility



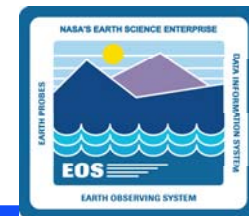
- **Command-line utility allows insert of granules from the ECS archive or from outside ECS**
  - Queues granules for Data Pool Action Dispatcher (DPAD) and insert by Data Pool Insert Utility (DPIU)
  - Batch label specified by **-label** option
  - Theme association specified by **-theme** option
    - » **Note:** If **-theme** option is used to link granules resident in Data Pool to a theme, and the granules were originally inserted using the Batch Insert Utility, must use a different batch label from that used for original insert into Data Pool
  - **EcDIBatchInsert.pl** *<MODE>* **-ecs** | **nonecs** [ **-file** *pathname* ]  
[ **-theme** "*theme-name*" ] [ **-label** *label* ]  
[ **-rpriority** *priority* ] [ **-rperiod** *period* ]  
[ **-dpriority** *priority* ] [ **-mdonly** ]  
[ **-verbose** ]

# Data Pool Order Status & Control



- **For orders place using the Data Pool Web Access tool or the single granule converter dialog for the HDF EOS - GeoTiff (HEG) Converter**
- **Allows operators to view the status of orders and order items**
- **Allows operators to control certain aspects of the order process**
- **Four functional areas:**
  - **Queue Control: Start and stop the HEG Converter Front End server**
  - **Orders: Reports the status of orders**
  - **Order Items: Reports the status of order items**
  - **Help: Provides information on the functions**

# DataPool Order Status & Control: Orders Page and Order Details



**DataPool: Order Status - Netscape**

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: <http://n0dps01u.ecs.nasa.gov:22000/OPS/order> What's Related

## DataPool Order Status & Control

[Queue Control](#) | [Orders](#) | [Order Items](#) | [Help](#)

### Orders

There are totally **23** orders , **1** order is currently being processed. There are also **9 failed orders** which need operator attention. The filtering status in this page is: No filtering

Filter: ☒ On ☐ Off By Status:  Do Filtering

Order ID	Status	E-Mail	User Name	Creation Date	Last Update
<a href="#">32</a>	DONE	hconover@itsc.uah.edu	-	05/15/03	05/15/03
<a href="#">9</a>	DONE	sjsk@nsidc.org	s khalsa	04/15/03	05/15/03
<a href="#">17</a>	DONE	sjsk@nsidc.org	s khalsa	04/18/03	05/15/03
<a href="#">10</a>	DONE	sjsk@nsidc.org	s khalsa	04/15/03	05/15/03
<a href="#">19</a>	DONE	sjsk@nsidc.org	s khalsa	04/21/03	05/15/03
<a href="#">31</a>	FAILOPERN	bmclean@nsidc.org	-	05/14/03	05/15/03
<a href="#">30</a>	DONE	bmclean@nsidc.org	-	05/14/03	05/14/03
<a href="#">29</a>	DONE	marilynk@nsidc.org	-	05/12/03	05/12/03
<a href="#">27</a>	FAILOPERN	bmclean@nsidc.org	-	05/02/03	05/06/03
<a href="#">28</a>	FAILOPERN	bmclean@nsidc.org	-	05/02/03	05/02/03

# Rows in Page: 10 Showing 1 - 10 of 23 Orders: < >

Filter: ☒ On ☐ Off By Status:  Do Filtering

Document Done

**DataPool: Order Details Viewer - Netscape**

## Order Details Viewer

Current Order/Row is 2 of 23: [First](#) [Previous](#) [Next](#) [Last](#)

### Details for Order 10 (#2 of 23)

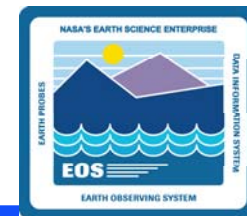
Order ID: 10  
 Status: DONE  
 Creation Date: 04/15/03  
 Last Update: 05/15/03  
 Email: [sjsk@nsidc.org](mailto:sjsk@nsidc.org)  
 Real Name: s khalsa  
 Upper Left Latitude: -  
 Upper Left Longitude: -  
 Lower Right Latitude: -  
 Lower Right Longitude: -

Output Projection:  
 (If specified at the Order level. Overrides orderItem projection selection.) **geo**

Output Format:  
 (If specified at the Order level. Overrides orderItem format selection.) **geotiff**

Current Order/Row is 2 of 23: [First](#) [Previous](#) [Next](#) [Last](#)

# DataPool Order Status & Control: Order Items Page and Item Details



**DataPool: Item Status - Netscape**

File Edit View Go Communicator Help

Location: [t1.ecs.nasa.gov:22000/OPS/order.jsessionid=vj1hvtv31?page=item&doFilter=on&submitFilter=yes&orderId=28&sort=itemId](http://t1.ecs.nasa.gov:22000/OPS/order.jsessionid=vj1hvtv31?page=item&doFilter=on&submitFilter=yes&orderId=28&sort=itemId) What's Related

**DataPool Order Status & Control**

[Queue Control](#) | [Orders](#) | [Order Items](#) | [Help](#)

## Items

There are totally [196](#) order items, [1](#) order item is currently being processed. There are also [72 failed order items](#) which need operator attention. The filtering status in this page is: Filter on order 28

Filter: ☒ On ☐ Off By Order ID:  Do Filtering By Status:  Do Filtering

# Rows in Page:  Showing  of 4 Order Items: < >

Item ID	Status	Error Code	Granule ID	Input File	Order
143	DONE	0	2594549	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h14v09.004.2003122183052.hdf	28
144	DONE	0	2594556	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h13v09.004.2003122185038.hdf	28
145	FAILED	610 HEG: Opening Input Parameter File	2594544	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h14v10.004.2003122183034.hdf	28
146	FAILED	610 HEG: Opening Input Parameter File	2594560	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h13v10.004.2003122185704.hdf	28

# Rows in Page:  Showing  of 4 Order Items: < >

Filter: ☒ On ☐ Off By Order ID:  Do Filtering By Status:  Do Filtering

Document Done

**DataPool: Request Details Viewer - Netscape**

## Order Item Details Viewer

Current Item/Row is 2 of 2: [First](#) | [Previous](#) | Next | [Last](#)

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Details for Order Item 38 (#2 of 2)

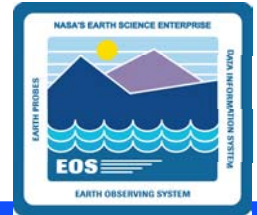
Item ID: 38  
 Order ID: 8  
 Status: DONE  
 Error Code: 0  
 Granule ID: 2013176744  
 Input File: MOLT/MODPT1KN.001/2000.08.25//labtest\_2013308902  
 Output  
 Projection: nochange  
 Output  
 Format: hdfs

---

Current Item/Row is 2 of 2: [First](#) | [Previous](#) | Next | [Last](#)



# DataPool Order Status & Control: Queue Control Page




**DataPool: Request Status - Netscape**

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: <http://n0dps01u.ecs.nasa.gov:22000/OPS/orderjsessionid=vj1hvotv31?page=config> What's Related

 **DataPool Order Status & Control**

[Queue Control](#) | [Orders](#) | [Order Items](#) | [Help](#)

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### Processing and Queue Status

HEG Front End Server:	<b>UP</b>	Exit Gracefully	Exit Immediately (No Cleanup)
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HEG Front End Processing State:	Process orders in the order queue
Maximum number of HEG Converter Processes:	10
Maximum Order Queue Size:	100

Apply Changes Reset

U.S. GOVERNMENT COMPUTER

YOU SHOULD HAVE NO EXPECTATION OF PRIVACY  
By continuing, you consent in your keystrokes and data content being monitored

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Document Done